



CALIFORNIA TECHNOLOGY,
TRADE & COMMERCE AGENCY



regional technology alliance : san diego

A County Level Analysis of California's R&D Capacity

Appendices



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I. Federal Agency Abbreviations

Rand's RaDiUS database contains records from the following agencies:

Agency Abbreviation	Full Name
DED	Department of Education
DOC	Department of Commerce
DOD	Department of Defense
DOE	Department of Energy
DOI	Department of the Interior
DOJ	Department of Justice
DOL	Department of Labor
DOT	Department of Transportation
DVA	Department of Veterans' Affairs
EPA	Environmental Protection Agency
HHS	Department of Health & Human Services
HUD	Department of Housing & Urban Development
NASA	National Aeronautical & Space Administration
NRC	Nuclear Regulatory Commission
NSF	National Science Foundation
SSA	Social Security Administration
USDA	US Department of Agriculture

II. Selected Glossary of RaDiUS Field Terms

Performer Location

The geographic location which a performer of R&D work considers its principal place of business.

Place of Performance

The geographic location where specific R&D work was actually conducted.

Total Federal Funding for All Fiscal Years (FYs)

The total amount of money anticipated to be spent by the Federal Government on a particular R&D effort over the entire lifetime of the effort. This figure is not routinely collected by some Federal organizations, so not every Award/Task record in RaDiUS contains this information. Because this figure is needed to calculate the "Average Fiscal Year (FY) Federal Funding" amount that is carried on every Award/Task record in RaDiUS, however, RAND has developed an alternative method of estimating this number (see definition of "Average Fiscal Year (FY) Federal Funding"). This alternative estimate is used only in the above-noted calculation and is not separately reported in the "Total Federal Funding for all FYs" field.

Average Fiscal Year (FY) Federal Funding

A special calculation RAND makes in an attempt to bring a degree of comparability to the variety of funding information made available by the various units of the Federal Government on R&D awards/tasks. It estimates the amount of funding that would be spent in a fiscal year if all Federal funds actually allocated to an R&D effort were spread equally across all fiscal years over the lifetime of the effort. To the extent that the necessary data are available, this value is calculated by dividing the total amount of funding for an award/task by the total number of fiscal years in which the award/task was active or is expected to be active. Because of differences in the data available from various federal agencies, however, this calculation is performed differently for some segments of the RaDiUS database. Specifically, when a value for the Total Federal Funding for All FYs of the award/task is available, this number is used in the calculation. When Total Federal Funding for All FYs [Years] is not available, the estimated total funding is computed by adding all funding payments actually dispersed to date to support the work of the award/task. When the total expected duration of an award/task is available, the calculation uses the total number of fiscal years in its actual or projected duration, even if this period extends into the future. When the expected duration of an award/task is not available, the calculation uses the total number of fiscal years it has been active, up to the present, as the total lifetime. In all cases, the total funding for the award/task is divided by the total number of fiscal years in which the award/task is or has been in any way active. This means that the total funding for an award/task that began one month before the end of a fiscal year and ended two months after the start of the next fiscal year is divided by two full fiscal years. PLEASE NOTE: The Average FY Federal Funding amounts for Awards/Tasks may change over the lifetimes of some specific Awards/Tasks, as their Estimated End Dates are extended or as additional payments are dispersed or withdrawn during the course of the particular R&D effort. In a given fiscal year, extensions of Estimated End Dates of Awards/Tasks result in a change in the Average FY Federal Funding amounts for approximately one-half of all Awards/Tasks that are active in that particular fiscal year.

Source: RaDiUS User Documentation

III. California's Unclassified Federal R&D Funding Breakdown By Agency and County

A. 1993-99 Aggregated

Rank	County Name	DED	DOC	DOD	DOE	DOI	DOJ	DOL	DOT	DVA	EPA	HHS	HUD	NASA	NRC	NSF	SSA	USDA	County Total	% Total
1	Los Angeles	43.464	32.724	9,358.336	353.571	20.799	2.922		73.599	282.816	48.333	2,611.172	0.592	9,751.011	0.917	539.295	0.778	4.191	23,124.521	46.028%
2	San Diego	6.987	132.091	2,738.965	234.314	2.765	0.747		39.289	279.494	5.660	2,337.105	0.025	176.513	0.201	330.198	5.091	6,289.445	12.519%	
3	Santa Clara	14.580	159.776	2,539.300	84.304	3.643		0.279	14.922	145.767	16.867	1,128.594		1,167.374	0.750	249.503	0.134	1.640	5,527.435	11.002%
4	Orange	1.830	6.875	2,094.838	64.899	0.143	0.379		6.626		6.889	308.692		2,167.351	0.005	76.377	0.028	0.898	4,735.830	9.426%
5	Alameda	73.664	12.172	172.351	2,688.986	5.697	1.975	0.603	11.726	0.000	8.099	828.085	0.075	209.437	0.070	279.678	0.204	51.383	4,344.204	8.647%
6	San Francisco	29.603	17.463	48.135	27.212	0.986	0.600	0.411	17.882	173.179	0.645	1,623.222	0.035	18.374	0.154	25.469	0.299	1.209	1,984.877	3.951%
7	San Mateo	1.708	23.426	251.441	906.004	1.302		4.790	11.062		0.878	76.234		100.648		37.353		0.264	1,415.110	2.817%
8	Santa Barbara	1.184	1.956	391.088	25.397	0.940	0.556	0.025	9.136		1.844	52.658		332.092	2.880	165.516		1.218	986.489	1.964%
9	Yolo	5.443	1.431	5.477	92.167	3.626	0.181				10.700	379.117		14.798		105.088		58.331	676.358	1.346%
10	Sacramento	0.433	10.543	72.579	37.209	7.847	0.460	0.038	13.199		11.429	17.478	0.060	38.922	0.232	0.620		8.286	219.334	0.437%
11	Ventura		4.488	187.190	1.568	0.037			0.315			1.099		13.186		0.085		0.036	208.004	0.414%
12	Santa Cruz	20.870	1.101	11.568	24.891	0.916		0.281			1.643	46.283		11.143		46.558		0.897	166.152	0.331%
13	Riverside	2.578		37.134	7.427	1.087	0.002		0.015		5.510	42.309		6.444		31.157		10.336	143.999	0.287%
14	San Bernardino		6.189	15.523	3.394		0.072		0.120	32.054	2.990	23.574		16.719		1.007		0.468	102.112	0.203%
15	Contra Costa	0.184	7.687	31.085	4.937	1.400			0.019	40.376	0.033	12.808		1.199		1.083		0.087	100.898	0.201%
16	Kern	0.062	0.200	64.880	0.217	0.018								19.533		0.378		0.000	85.289	0.170%
17	Sonoma	0.379	0.130	6.810	23.404						0.203	1.166		3.421		0.089		0.040	35.643	0.071%
18	Monterey		1.892	5.925	0.149	0.053						0.600		12.349		6.641		0.143	27.751	0.055%
19	Marin	0.038	0.385	3.328	1.462	0.155						3.891		0.312		0.149		0.023	9.743	0.019%
20	San Joaquin		0.244	5.735	0.039						0.030	2.798		0.759		0.021		0.925	0.019%	
21	San Luis Obispo			4.087				0.060		1.206		0.495		2.266		1.527		0.427	8.862	0.018%
22	Fresno	2.932		1.483	0.040	0.046					1.131		0.958		0.142		0.666	8.603	0.017%	
23	Lake			1.045	7.434													8.479	0.017%	
24	Humboldt		0.099	0.000	2.369	0.148					0.884		0.053		0.743		1.490	5.786	0.012%	
25	Butte	0.359	0.020	0.000	0.038						1.330		0.360		0.204	0.218	0.134	2.663	0.005%	
26	Napa			0.683							0.050		0.935					1.668	0.003%	
27	Solano	0.131	0.072	0.314	0.075		0.430				0.080		0.327				0.149	1.578	0.003%	
28	Placer			0.589		0.025					0.349		0.441					1.404	0.003%	
29	Inyo			0.896							0.100				0.103		0.072	1.171	0.002%	
30	Kings	0.060				0.346		0.021					0.199				0.800	1.059	0.002%	
31	Modoc										0.300						0.010	0.656	0.001%	
32	Imperial							0.021			0.067						0.543	0.631	0.001%	
33	Stanislaus			0.270							0.318			0.018				0.606	0.001%	
34	Tulare										0.476				0.017		0.493	0.001%		
35	Shasta										0.445						0.000	0.445	0.001%	
36	Trinity	0.145															0.213	0.358	0.001%	
37	Mendocino			0.065							0.099			0.163			0.020	0.347	0.001%	
38	Tuolumne			0.293							0.050							0.343	0.001%	
39	Plumas										0.250							0.250	0.000%	
40	San Benito			0.237														0.237	0.000%	
41	El Dorado			0.062							0.169							0.231	0.000%	
42	Siskiyou	0.120		0.062			0.010				0.150				0.023			0.205	0.000%	
43	Glenn			0.099														0.160	0.000%	
44	Yuba																0.051	0.099	0.000%	
45	Tehama														0.051			0.051	0.000%	
46	Calaveras										0.050						0.050	0.050	0.000%	
47	Colusa										0.050						0.050	0.050	0.000%	
48	Del Norte	0.050												0.032			0.050	0.050	0.000%	
49	Mariposa													0.030			0.032	0.032	0.000%	
50	Lassen													0.017			0.030	0.030	0.000%	
	<i>Not Specified</i>			0.079		0.169											0.264	0.264	0.001%	
																	0.000	0.000	0.000%	
	Agency Total:	206.489	421.280	18,051.950	4,591.852	51.766	7.961	6.575	198.253	954.891	121.752	9,503.758	0.788	14,066.395	5.208	1,899.995	1.661	149.104	50,239.679	100.000%

B. 1993

Rank	County Name	DED	DOC	DOD	DOE	DOI	DOJ	DOL	DOT	DVA	EPA	HHS	HUD	NASA	NRC	NSF	SSA	USDA	County Total
1	Los Angeles	4.979	1.755	972.729	62.170	3.013	0.014		2.108	20.967	5.354	272.001	1,972.753	0.104	71.444	0.301		3,389.693	
2	Orange	0.130	0.108	295.324	12.203				0.520		1.479	30.428	320.161	0.001	8.967	0.025		669.345	
3	Santa Clara	0.497	4.335	287.154	6.621	0.150			0.629	13.891	2.191	119.747	147.042		27.245	0.117		609.619	
4	San Diego	0.424	9.904	236.659	13.686	0.296			2.852	32.780	0.990	222.130	22.306	0.011	51.589	0.522		594.150	
5	Alameda	4.677	0.113	16.014	268.523	0.464	0.039	0.000	0.473	0.000	0.664	88.193	28.414	0.002	36.720	6.283		450.578	
6	San Mateo	0.048	0.105	38.271	213.840	0.077		0.461	0.345		0.185	9.046	2.558		4.364	0.020		269.319	
7	San Francisco	1.591	0.101	7.167	6.055	0.115	0.180		0.233	12.416	0.049	164.679	1.677		3.090			197.352	
8	Santa Barbara	0.272	0.214	41.103	3.117	0.123			1.542		0.233	6.940	41.328		20.568	0.075		115.515	
9	Yolo	0.429	0.263	0.706	14.420	0.159	0.036				1.149	42.152	1.370		13.452	5.408		79.545	
10	Ventura			23.657	0.099	0.002			0.012			0.147	1.399		0.031	0.004		25.351	
11	Kern			21.112	0.013								2.224		0.074			23.422	
12	Sacramento	0.073	0.568	7.344	0.717	0.093	0.031		0.273		1.540	2.139	5.677	0.044	0.055	0.598		19.151	
13	Santa Cruz	1.548	0.094	0.100	3.477	0.148					0.010	4.848	0.952		5.456	0.018		16.652	
14	Riverside	0.276		3.405	0.367	0.015			0.015		0.138	5.145	0.826		4.020	0.444		14.651	
15	San Bernardino			4.384						3.970	0.208	2.035	0.273		0.231	0.025		11.127	
16	Contra Costa	0.045	0.035	1.113	0.775	0.050			0.010	4.088	0.033	1.683	0.039		0.132	0.002		8.006	
17	Marin	0.025		1.702							0.456		0.072		0.099	0.003		2.357	
18	San Joaquin	0.013		1.699	0.013						0.413				0.055	0.003		2.194	
19	Monterey	0.144		0.269	0.050						0.111		0.484		0.569	0.013		1.641	
20	Lake			0.738														0.738	
21	Sonoma			0.326	0.013							0.181				0.020		0.540	
22	San Luis Obispo			0.127								0.262		0.098		0.032		0.519	
23	Solano	0.035	0.036					0.108				0.227				0.009		0.414	
24	Humboldt				0.005						0.135			0.040	0.109			0.288	
25	Fresno	0.048				0.122			0.160		0.023		0.034		0.012	0.005		0.282	
26	Tuolumne				0.169						0.050							0.172	
27	Napa										0.159							0.169	
28	Stanislaus																	0.159	
29	Kings														0.133			0.133	
30	Imperial														0.075			0.075	
31	Butte	0.036		0.000	0.013									0.009	0.004			0.063	
32	Inyo			0.026										0.034				0.060	
33	Colusa									0.050								0.050	
34	Glenn									0.050								0.050	
35	Mendocino									0.050								0.050	
36	Tehama													0.026				0.026	
37	Placer			0.024														0.024	
38	Modoc														0.010			0.010	
39	Shasta														0.000			0.000	
	<i>Not Specified</i>			0.000														0.000	
	Agency Total:	15.109	17.813	1,960.704	606.911	4.709	0.300	0.568	9.011	88.274	14.222	972.811	2,550.259	0.162	248.379	14.258	6,503.490		

C. 1994

Rank	County Name	DED	DOC	DOD	DOE	DOI	DOJ	DOL	DOT	DVA	EPA	HHS	HUD	NASA	NRC	NSF	SSA	USDA	County Total
1	Los Angeles	4.387	3.185	1,251.554	63.567	3.274	0.030		11.623	27.866	8.296	327.706	0.064	1,982.052	0.111	79.226	0.450		3,763.392
2	Alameda	9.346	0.358	25.474	513.618	0.863	0.039	0.201	1.547	0.000	0.808	104.259	0.015	30.191	0.002	40.522	7.050		734.292
3	Santa Clara	0.468	7.524	367.961	9.091	0.256			0.839	17.177	2.573	137.400		153.802		34.931	0.125		732.149
4	San Diego	1.184	14.963	292.878	13.526	0.462	0.029		5.711	34.633	1.036	257.412		24.317	0.058	56.592	0.596		703.396
5	Orange	0.302	0.441	299.101	12.583	0.025	0.007		0.521		1.776	38.167		311.610	0.001	11.380	0.128		676.043
6	San Mateo	0.177	0.584	38.037	213.878	0.245		0.737	0.314		0.233	10.395		15.767		6.426	0.020		286.813
7	San Francisco	1.306	0.136	10.352	6.069	0.155	0.180		0.416	15.138	0.056	203.086		2.215		3.718	0.092		242.919
8	Santa Barbara	0.184	0.438	47.600	3.904	0.181			1.542		0.378	7.985		50.427	0.185	22.976	0.170		135.971
9	Yolo	0.569	0.382	0.908	12.402	0.165	0.036				1.362	48.226		1.825		15.236	7.350		88.460
10	Ventura		0.500	34.526	0.099				0.012			0.147		1.831		0.031			37.147
11	Sacramento	0.116	0.904	8.857	2.472	0.108	0.130		0.374		1.821	3.015	0.030	6.139	0.051	0.155	0.562		24.736
12	Kern			21.163	0.013									1.954		0.060			23.191
13	Santa Cruz	0.816	0.094	0.588	3.380	0.187					0.097	5.445		1.068		7.268	0.066		19.008
14	Riverside	0.399		3.807	1.126	0.015					0.139	5.888		0.573		4.679	1.061		17.688
15	Contra Costa	0.092		1.163	0.775	0.092			0.010	4.195		2.609		0.039		0.150	0.002		9.128
16	San Bernardino			2.364					0.054	3.834	0.208	2.064		0.206		0.253	0.097		9.081
17	Monterey		0.302	0.218	0.050	0.019						0.137		1.726		0.742	0.013		3.207
18	San Joaquin		0.013	1.699	0.013							0.532				0.070	0.003		2.329
19	Sonoma			0.690	0.013						0.068	0.164		0.644			0.020		1.598
20	San Luis Obispo			0.671									0.305		0.184	0.027		1.187	
21	Marin		0.025	0.025	0.162							0.456		0.072	0.017	0.003	0.760		
22	Lake				0.738													0.738	
23	Fresno	0.297								0.152		0.101		0.034		0.013	0.005		0.602
24	Humboldt					0.012						0.327				0.106	0.148		0.593
25	Solano	0.066	0.036	0.039				0.108									0.009		0.256
26	Placer			0.159								0.073							0.233
27	Butte	0.059		0.000	0.013							0.020		0.043		0.058	0.193		
28	Kings											0.051					0.133		0.184
29	Stanislaus									0.159									0.159
30	Tuolumne			0.122															0.122
31	Napa			0.120															0.120
32	Imperial															0.101		0.101	
33	Modoc									0.100									0.100
34	Mendocino									0.050				0.034					0.084
35	Inyo		0.026											0.034					0.060
36	Glenn									0.050									0.050
37	Plumas									0.050									0.050
38	Shasta									0.050							0.000		0.050
39	San Benito		0.037																0.037
40	Tehama														0.026				0.026
	<i>Not Specified</i>			0.000															0.000
	Agency Total:	19.769	29.885	2,410.137	857.492	6.059	0.451	1.046	22.965	102.995	18.850	1,155.983	0.109	2,586.944	0.408	284.875	18.287	7,516.254	

D. 1995

Rank	County Name	DED	DOC	DOD	DOE	DOI	DOJ	DOL	DOT	DVA	EPA	HHS	HUD	NASA	NRC	NSF	SSA	USDA	County Total
1	Los Angeles	6.053	4.134	1,389.259	44.272	3.723	0.385		11.829	32.127	7.877	351.229	0.125	1,227.230	0.243	83.592	0.381	0.699	3,163.157
2	Santa Clara	0.899	19.015	408.168	10.023	0.283			1.237	18.767	2.766	143.660		207.554	0.033	37.589	0.134	0.300	850.425
3	San Diego	1.588	17.700	377.565	41.986	0.487	0.029		6.244	35.334	1.089	277.167		26.978	0.060	59.634	0.816		846.676
4	Alameda	11.703	2.020	24.987	548.036	0.952	0.086	0.201	1.547		1.455	110.125		30.246	0.033	40.313	0.102	7.544	779.352
5	Orange	0.389	1.282	311.291	12.454	0.043	0.007		1.619		1.481	41.690		318.367	0.001	12.440	0.103		701.167
6	San Francisco	1.840	3.151	8.113	3.021	0.215	0.180		1.388	17.466	0.056	213.869		2.862	0.051	3.668	0.299	0.253	256.434
7	San Mateo	0.307	3.095	39.923	95.055	0.341		1.105	0.286		0.214	11.000		16.066		4.945	0.075		172.412
8	Santa Barbara	0.139	0.370	58.550	3.811	0.179		0.012	1.542		0.377	6.815		50.958	0.235	27.211	0.190		150.389
9	Yolo	0.885	0.288	0.860	12.630	0.203	0.036				1.649	50.613		2.261		15.540	7.895		92.861
10	Ventura		1.030	31.986	0.099	0.002			0.012			0.278		1.677		0.023	0.006		35.114
11	Sacramento	0.128	1.852	13.403	5.542	0.158	0.157		0.374		2.711	3.121	0.030	3.847	0.051	0.139	0.212		31.726
12	Kern	0.014		20.789										3.281		0.071	0.000		24.154
13	Santa Cruz	1.650	0.134	1.680	3.471	0.126					0.130	6.223		1.481		7.915	0.048		22.858
14	Riverside	0.522		5.094	1.126	0.439					0.432	6.026		0.946		5.253	1.453		21.291
15	Contra Costa	0.046	1.000	1.528	0.600	0.073				5.097		2.327		0.148		0.148	0.029		10.997
16	San Bernardino		1.238	1.180					0.054	4.173	0.208	3.035		0.351		0.165	0.099		10.502
17	Sonoma			1.123	4.559						0.068	0.164		0.503		0.003			6.419
18	Monterey	0.413	0.911	0.050	0.019						0.137		1.623		0.904	0.013		4.071	
19	San Joaquin	0.013		1.699	0.013							0.601				0.122	0.003		2.450
20	San Luis Obispo			0.577										0.374		0.173	0.059		1.182
21	Fresno	0.449			0.013	0.015				0.133		0.288		0.048		0.050	0.017		1.014
22	Lake				0.738													0.738	
23	Marin	0.007	0.000	0.026	0.162							0.188		0.095		0.025	0.009		0.512
24	Humboldt					0.007						0.117		0.008		0.106	0.226		0.464
25	Butte	0.082	0.007	0.000	0.013								0.020		0.043	0.218	0.054		0.437
26	Solano	0.031		0.039				0.108			0.080					0.035		0.292	
27	Napa			0.108							0.025		0.157					0.290	
28	Placer			0.135		0.013							0.073					0.221	
29	Kings												0.051				0.133	0.184	
30	Imperial					0.005										0.119		0.124	
31	Modoc										0.100							0.100	
32	Plumas										0.100							0.100	
33	Inyo			0.050											0.034		0.084		
34	Mendocino			0.033											0.034		0.067		
35	Siskiyou		0.060															0.060	
36	Glenn										0.050							0.050	
37	Shasta										0.050					0.000		0.050	
38	Trinity																0.042		0.042
39	San Benito			0.037														0.037	
40	Tulare			0.000												0.000		0.000	
	<i>Not Specified</i>														0.017			0.017	
	Agency Total:	26.732	56.802	2,699.111	787.676	7.263	0.900	1.426	26.133	113.097	20.512	1,229.079	0.155	1,897.205	0.707	300.158	1.134	20.433	7,188.521

E. 1996

Rank	County Name	DED	DOC	DOD	DOE	DOI	DOJ	DOL	DOT	DVA	EPA	HHS	HUD	NASA	NRC	NSF	SSA	USDA	County Total
1	Los Angeles	5.849	3.505	1,388.834	45.400	3.143	0.582		11.449	37.160	7.714	354.848	0.064	1,262.476	0.170	69.741	0.219	0.750	3,191.904
2	San Diego	1.133	18.873	422.854	41.036	0.177	0.029		5.837	38.242	0.183	349.841		22.908	0.040	38.918	0.817		940.887
3	Santa Clara	2.331	19.230	411.794	13.463	0.619		0.140	1.135	20.070	2.956	153.373		197.278	0.246	36.488	0.262		859.383
4	Orange	0.348	1.282	311.669	4.731	0.049	0.129		1.135		1.361	41.671		318.532	0.001	10.209	0.028	0.134	691.281
5	Alameda	13.983	2.279	24.972	338.093	0.762	0.469	0.201	1.061		1.094	110.089		30.741	0.033	35.825	0.102	7.852	567.555
6	San Francisco	5.811	3.130	8.357	3.128	0.165	0.030	0.205	2.424	18.691	0.029	217.460		2.300	0.051	3.328	0.286		265.398
7	San Mateo	0.399	3.189	32.614	94.832	0.109			1.176	0.200		0.107	9.352		16.123	3.885		0.075	162.060
8	Santa Barbara	0.086	0.273	66.673	3.935	0.149		0.012	0.037		0.377	7.076		46.545	0.692	24.889	0.198		150.943
9	Yolo	0.748	0.119	0.716	12.990	0.390	0.036				1.416	50.625		2.187		13.473	8.913		91.612
10	Sacramento	0.055	2.067	10.686	6.325	0.201	0.057		1.231		2.534	2.065		6.259	0.044	0.045	4.010		35.580
11	Ventura		1.030	23.168	0.287	0.002			0.112			0.278		1.809			0.006		26.692
12	Santa Cruz	2.984	0.069	2.351	3.489	0.104					0.088	6.232		1.731		6.282	0.098		23.429
13	Riverside	0.432		5.650	1.181	0.424					0.432	5.229		0.893		3.916	1.666		19.824
14	Contra Costa		1.000	6.611	0.785	0.074				5.420		1.581		0.247		0.212	0.027		15.957
15	San Bernardino		1.238	1.594	0.169				0.006	4.212	0.208	3.428		1.985		0.054	0.100		12.993
16	Sonoma	0.023		1.271	4.559						0.068	0.164		0.523		0.003			6.610
17	Kern	0.031		0.365	0.018									3.490		0.066	0.000		3.971
18	Monterey		0.196	1.016							0.137		1.383		0.836	0.002			3.570
19	Lake			0.035	1.934														1.969
20	San Luis Obispo			0.577								0.124		0.305		0.145	0.065		1.215
21	Fresno	0.400			0.013	0.015			0.165		0.288		0.206		0.037	0.029		1.154	
22	Humboldt			0.000	0.592	0.000					0.115		0.008		0.105	0.224		1.044	
23	Marin	0.007	0.054	0.091	0.256						0.319		0.039		0.008	0.008		0.781	
24	San Joaquin		0.147								0.319					0.075	0.003		0.543
25	Inyo			0.298														0.298	
26	Placer			0.135		0.013							0.073						0.221
27	Napa										0.025		0.157						0.182
28	Kings												0.026				0.133		0.160
29	Solano						0.108										0.035		0.143
30	Butte	0.060	0.007	0.000			0.005						0.070						0.137
31	Imperial																0.110		0.115
32	Shasta										0.103						0.000		0.103
33	Modoc										0.100								0.100
34	Plumas										0.100								0.100
35	Mendocino			0.033											0.054				0.087
36	San Benito			0.082															0.082
37	Siskiyou		0.060													0.008			0.068
38	Trinity																0.059		0.059
39	Stanislaus			0.049												0.006			0.055
40	Calaveras									0.050									0.050
41	Yuba			0.050															0.050
42	Tulare			0.000												0.000			0.000
	<i>Not Specified</i>																		<i>0.000</i>
	Agency Total:	34.681	57.747	2,722.544	577.218	6.380	1.353	1.842	24.628	123.960	18.567	1,314.992	0.064	1,918.293	1.278	248.608	0.349	25.863	7,078.366

F. 1997

Rank	County Name	DED	DOC	DOD	DOE	DOI	DOJ	DOL	DOT	DVA	EPA	HHS	HUD	NASA	NRC	NSF	SSA	USDA	County Total
1	Los Angeles	6.119	3.327	1,514.037	47.437	2.654	0.640		11.120	47.900	10.451	355.742	0.040	1,093.222	0.162	71.426	0.089	0.668	3,165.034
2	San Diego	0.831	27.280	461.400	41.086	0.278	0.095		6.181	41.095	0.067	294.517		26.232	0.032	38.195	0.837		938.126
3	Santa Clara	3.801	27.951	413.856	12.618	0.946		0.140	0.672	24.113	2.911	154.651		151.172	0.346	32.233	0.349		825.760
4	Orange	0.239	1.013	317.828	5.205	0.025	0.123		0.778		0.266	43.895		305.539		9.742	0.137		684.791
5	Alameda	12.504	1.926	29.831	312.177	0.760	0.499		2.064		0.985	109.775	0.003	28.618		36.628	7.918		543.688
6	San Francisco	6.279	2.942		5.061	3.908	0.097	0.030	0.205	3.401	28.711	0.112	225.914	0.023	2.946	0.051	2.327	0.236	282.243
7	San Mateo	0.390	3.174	37.249	95.009	0.234		0.947	3.306		0.077	8.969		16.889		4.524	0.075		170.842
8	Santa Barbara	0.191	0.228	65.224	3.565	0.091	0.185		1.491		0.151	7.017		48.963	0.666	23.981	0.287		152.040
9	Yolo	0.786	0.077		1.011	12.249	0.551	0.036			1.631	53.024		2.075		12.853	8.569		92.863
10	Sacramento	0.030	2.048	11.723	8.467	2.848	0.057		2.774		2.257	1.927		6.869	0.044	0.062	1.436		40.542
11	Ventura		1.143	27.516	0.394	0.002			0.012			0.197		2.403			0.007		31.675
12	Santa Cruz	4.402	0.072	2.128	3.489	0.092			0.094		0.369	7.094		1.797		5.702	0.126		25.366
13	Riverside	0.364		7.800	1.171	0.045					0.294	6.015		1.396		3.996	1.801		22.883
14	Contra Costa		2.160	6.771	0.743	0.306				5.866		1.646		0.143		0.176	0.027		17.839
15	San Bernardino		1.238	1.822	0.169		0.036		0.006	4.716	0.208	3.362		3.427		0.023	0.073		15.081
16	Sonoma	0.046		1.381	4.741							0.197		0.677		0.029			7.071
17	Monterey		0.279	1.495		0.008						0.076		2.307		1.089	0.002		5.256
18	Kern	0.018	0.100	0.314	0.018									2.438		0.051	0.000		2.939
19	Lake			0.360	1.934														2.294
20	San Luis Obispo			0.749				0.020			0.124		0.319		0.238	0.082			1.531
21	Fresno	0.491			0.013	0.015			0.176		0.251		0.206			0.272			1.423
22	Humboldt			0.000	0.592	0.051					0.090		0.021		0.043	0.362			1.159
23	Marin	0.013	0.054	0.324	0.294	0.050					0.297		0.017			0.001			1.049
24	San Joaquin		0.060	0.320							0.341				0.029	0.003			0.752
25	Inyo			0.248							0.050								0.298
26	Placer			0.135						0.050		0.073							0.258
27	Napa			0.019								0.207							0.226
28	Solano			0.065	0.038							0.050				0.040			0.193
29	Kings											0.041				0.133			0.175
30	Butte	0.060	0.007	0.000								0.050		0.028					0.145
31	San Benito			0.082															0.082
32	Stanislaus			0.064				0.005							0.006				0.070
33	Imperial												0.053				0.055		0.060
34	Shasta															0.000			0.053
35	Trinity															0.052			0.052
36	Yuba			0.050															0.050
37	Siskiyou			0.031											0.008				0.039
38	Mendocino														0.020				0.020
39	Tulare															0.000			0.000
	<i>Not Specified</i>			0.079		0.084													0.163
	Agency Total:	36.563	75.077	2,908.973	555.318	9.121	1.723	1.292	31.918	152.577	19.780	1,275.271	0.066	1,698.097	1.301	243.409	0.089	23.550	7,034.127

G. 1998

Rank	County Name	DED	DOC	DOD	DOE	DOI	DOJ	DOL	DOT	DVA	EPA	HHS	HUD	NASA	NRC	NSF	SSA	USDA	County Total
1	Los Angeles	7.448	8.902	1,365.459	45.041	2.965	0.692		12.346	57.515	4.921	349.715	0.144	1,141.613	0.091	80.424	0.089	0.458	3,077.824
2	San Diego	1.019	24.733	499.653	41.211	0.565	0.272		6.819	47.742	1.065	308.381		25.993		41.437	0.755		999.644
3	Santa Clara	3.431	42.105	391.490	13.858	0.870			4.785	24.162	2.445	155.627		147.131	0.063	39.741	0.247		825.955
4	Orange	0.245	1.625	296.819	5.028		0.113		1.027		0.293	43.568		297.916		10.968	0.088		657.689
5	Alameda	11.615	2.976	28.541	347.507	0.950	0.460		2.079		1.610	111.564	0.057	31.049		41.546	7.454		587.409
6	San Francisco	6.930	3.932	5.594	4.031	0.127			4.525	34.581	0.172	225.265	0.013	3.035		4.047	0.182		292.433
7	San Mateo	0.241	7.113	36.802	95.647	0.201		0.364	3.306		0.063	8.446		16.846		5.862			174.889
8	Santa Barbara	0.209	0.180	62.302	3.534	0.052	0.185		1.491		0.188	6.286		49.972	0.643	21.961	0.183		147.187
9	Yolo	1.388	0.119	0.894	13.461	0.839					1.768	55.045		2.665		15.776	9.357		101.313
10	Sacramento	0.030	1.662	12.431	6.374	2.632	0.027		3.656		0.530	2.326		6.195		0.045	0.803		36.710
11	Santa Cruz	5.776	0.227	2.765	3.748	0.147			0.094		0.475	6.408		2.075		6.544	0.217		28.474
12	Ventura		0.643	24.276	0.295	0.015			0.012			0.050		2.296			0.007		27.594
13	Riverside	0.383		6.174	1.171	0.045					2.033	5.444		0.930		4.089	1.809		22.079
14	San Bernardino		1.238	2.288	1.613		0.036			4.956	0.974	3.757		5.589	0.109		0.038		20.598
15	Contra Costa		2.246	6.763	0.642	0.383				7.978		1.370		0.238		0.188			19.808
16	Sonoma	0.070		0.827	4.741							0.197		0.405		0.034			6.274
17	Monterey		0.329	1.235		0.008								2.580		0.966	0.047		5.164
18	Kern		0.100	0.347	0.018									2.396		0.037	0.000		2.898
19	Fresno	0.738		0.741						0.226		0.102		0.281			0.264		2.351
20	Lake			0.325	1.273														1.598
21	Marin	0.013	0.141	0.619	0.294	0.058						0.243		0.017					1.383
22	San Luis Obispo			0.522					0.020			0.124		0.316		0.325	0.065		1.371
23	Butte			0.000								1.234				0.028			1.262
24	Humboldt		0.044	0.000	0.592	0.062						0.033		0.013		0.161	0.242		1.147
25	San Joaquin			0.320						0.015	0.259					0.111	0.003		0.707
26	Napa			0.144								0.050		0.207					0.350
27	Inyo	0.030		0.248								0.050					0.018		0.316
28	Kings				0.065	0.038							0.015			0.133			0.178
29	Solano												0.050			0.014			0.166
30	Placer										0.050		0.073						0.123
31	Trinity		0.073		0.031							0.060					0.040		0.113
32	El Dorado																		0.091
33	Imperial					0.005										0.035			0.040
34	Siskiyou				0.031										0.008			0.039	
35	Mendocino														0.020	0.010		0.030	
36	Del Norte		0.025									0.025							0.025
37	Shasta															0.000			0.025
38	Stanislaus			0.015											0.006			0.021	
39	Tulare															0.008			0.008
	<i>Not Specified</i>			0.000		0.084													0.084
	Agency Total:	39.564	98.411	2,747.721	590.117	10.003	1.790	0.364	40.159	177.160	16.552	1,285.627	0.214	1,739.894	0.797	274.432	0.089	22.476	7,045.371

H. 1999

Rank	County Name	DED	DOC	DOD	DOE	DOI	DOJ	DOL	DOT	DVA	EPA	HHS	HUD	NASA	NRC	NSF	USDA	County Total
1	Los Angeles	8.630	7.916	1,476.464	45.683	2.027	0.580		13.123	59.280	3.721	599.931	0.155	1,071.664	0.035	83.443	0.865	3,373.516
2	San Diego	0.808	18.639	447.955	41.784	0.500	0.294		5.645	49.668	1.229	627.658	0.025	27.779	43.834	0.749		1,266.566
3	Santa Clara	3.153	39.617	258.877	18.631	0.519			5.625	27.588	1.024	264.137		163.395	0.063	41.276	0.240	824.144
4	Alameda	9.835	2.499	22.532	361.031	0.946	0.383		2.955		1.483	194.081		30.178		48.124	7.282	681.330
5	Orange	0.177	1.124	262.806	12.695				1.027		0.233	69.273		295.227		12.671	0.284	655.515
6	San Francisco	5.846	4.072	3.491	1.000	0.111			5.495	46.175	0.171	372.949		3.339		5.290	0.160	448.098
7	San Mateo	0.146	6.166	28.545	97.744	0.096			3.306			19.026		16.399		7.348		178.775
8	Santa Barbara	0.104	0.252	49.635	3.530	0.165	0.185		1.491		0.140	10.540		43.899	0.458	23.931	0.114	134.443
9	Yolo	0.638	0.183	0.382	14.015	1.320					1.726	79.431		2.415		18.757	10.839	129.705
10	Sacramento		1.443	8.135	7.310	1.808		0.038	4.516		0.037	2.885		3.936		0.118	0.665	30.890
11	Santa Cruz	3.693	0.410	1.957	3.837	0.112			0.094		0.475	10.033		2.039		7.390	0.324	30.365
12	Riverside	0.202		5.204	1.283	0.104	0.002				2.042	8.563		0.879		5.204	2.101	25.584
13	Ventura		0.143	22.060	0.295	0.015			0.143					1.771			0.005	24.432
14	San Bernardino	1.238		1.891	1.444					6.193	0.974	5.894		4.889		0.172	0.036	22.729
15	Contra Costa		1.246	7.136	0.615	0.422				7.731		1.592		0.344		0.077		19.163
16	Sonoma	0.240	0.130	1.193	4.778							0.281		0.488		0.021		7.131
17	Monterey		0.228	0.781										2.247		1.535	0.051	4.841
18	Kern			0.790	0.136	0.018								3.750		0.019	0.000	4.715
19	Marin		0.087	0.541	0.294	0.047						1.931						2.900
20	San Luis Obispo			0.865					0.020			0.124		0.386		0.364	0.098	1.857
21	Fresno	0.508		0.741						0.193		0.078		0.150		0.030	0.076	1.776
22	Humboldt		0.054		0.592	0.011						0.067		0.004		0.183	0.179	1.090
23	San Joaquin										0.015	0.334			0.297	0.004		0.650
24	Tulare											0.476					0.009	0.485
25	Butte	0.061										0.096		0.200		0.052	0.017	0.427
26	Lake			0.325	0.078												0.403	
27	Modoc				0.346												0.346	
28	Napa			0.125									0.207				0.331	
29	Placer										0.250		0.073				0.323	
30	Shasta										0.163						0.163	
31	Stanislaus			0.143													0.143	
32	El Dorado			0.031							0.109						0.140	
33	Solano			0.107								0.067					0.008	0.115
34	Imperial											0.067					0.048	0.114
35	Trinity		0.073														0.019	0.092
36	Inyo			0.050													0.054	0.054
37	Tuolumne	0.030															0.050	
38	Kings											0.015					0.045	
39	Mariposa											0.032					0.032	
40	Lassen			0.025							0.030						0.030	
41	Del Norte																0.025	
42	Mendocino																0.010	
43	Glenn				0.010												0.010	
	<i>Not Specified</i>			0.000	0.000												0.000	
	Agency Total:	34.071	85.544	2,602.759	617.119	8.231	1.444	0.038	43.439	196.829	13.269	2,269.995	0.179	1,675.704	0.555	300.136	24.237	7,873.550

I. 2000

Rank	County Name	DED	DOC	DOD	DOE	DOI	DOJ	DOL	DOT	DVA	EPA	HHS	HUD	NASA	NRC	NSF	SSA	USDA	County Total*	
1	Los Angeles	10.309	7.577	1,259.712	43.644	1.868	0.216		15.615	49.188	5.154	--	0.255	843.394		89.973	0.762		2,327.667	
2	San Diego	0.392	16.918	393.457	45.557	0.365	0.516		3.907	49.799	1.229	--	0.025	26.044	0.026	42.701	0.543		581.478	
3	Orange	0.379	1.124	235.400	14.664				0.796		0.281	--		303.657		14.300	0.351		570.952	
4	Santa Clara	1.880	36.934	260.931	19.846	0.438			13.587	26.910	1.042	--		170.606		37.993	0.346		570.513	
5	Alameda	7.728	2.573	19.334	384.747	0.711	0.188	0.015	10.697		1.563	--	0.001	26.351		51.423	9.917		515.249	
6	San Mateo	0.100	4.688	27.727	98.046	0.096			3.653		0.202	--		16.399		6.384	0.000		157.295	
7	Santa Barbara	0.152	0.228	41.453	4.921	0.210	0.185		2.405		0.140	--		43.543	0.494	31.012	0.197		124.938	
8	San Francisco	5.935	3.915	3.503	5.093	0.048			6.680	53.598	0.078	--		2.472		6.190	0.086		87.598	
9	Kern			1.636	0.241	0.056					--			62.281		0.019	0.000		64.233	
10	Yolo	0.642	0.182	0.744	14.742	0.644					1.838	--		2.170		21.142	9.343		51.447	
11	Sacramento		2.852	8.459	7.582	1.956			0.038	5.480		0.384	--		3.240		0.153	1.060		31.201
12	Riverside	0.387		13.066	1.309	0.049	0.002		1.988		2.337	--	0.015	0.805		6.103	2.308		28.369	
13	Ventura		0.143	23.440	0.107				0.131		--			2.777			0.002		26.599	
14	Santa Cruz	3.389	0.259	0.835	3.652	0.100			0.094		0.475	--		1.194		9.281	0.383		19.660	
15	Contra Costa	0.116	0.931	6.038	0.371	0.401				7.593		--		0.310		0.073			15.833	
16	San Bernardino		1.238	2.078						6.677	0.766	--		4.615		0.137	0.003		15.514	
17	Sonoma	0.217	0.130	1.198	4.948						--			0.532		0.128			7.153	
18	Monterey		0.396	0.983	0.277						--			2.392		1.526	0.051		5.625	
19	Fresno	0.620	0.193	0.741						0.228		--		0.137		0.030	0.130		2.078	
20	San Luis Obispo			1.114				0.020			--			0.365		0.388	0.134		2.021	
21	Humboldt		0.230		0.592	0.023					--					0.183	0.280		1.308	
22	Marin		0.087	0.645	0.310	0.010					--								1.053	
23	Butte	0.096			0.097						--			0.367		0.081	0.020		0.661	
24	Lake			0.111	0.364						--								0.475	
25	San Joaquin		0.096							0.015	--					0.297	0.001		0.409	
26	Modoc			0.346							--								0.346	
27	Napa			0.125							--			0.157		0.033			0.315	
28	Stanislaus			0.173							--								0.173	
29	Inyo										--					0.095			0.095	
30	Trinity	0.073									--					0.019			0.092	
31	Tuolumne			0.050							--								0.050	
32	Mendocino	0.035									--					0.010			0.045	
33	Solano		0.044								--								0.044	
34	Mariposa										--			0.032					0.032	
35	Tulare										--					0.014			0.014	
36	Imperial							0.010			--					0.013			0.013	
37	Glenn										--								0.010	
38	Placer										--								0.000	
39	El Dorado										--								0.000	
40	Shasta										--								0.000	
	<i>Not Specified</i>			0.060							--						0.060		0.000	
	Agency Total:	32.341	80.704	2,303.152	651.456	6.985	1.108	0.053	65.052	193.993	15.503	--	0.295	1,513.839	0.519	319.551	26.066	5,210.617		

FY2000 data is unavailable for HHS.

IV. California's Unclassified Federal R&D Funding Trends, by County

A. 1993-1999 Aggregated for All Agencies

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	Grand Total
1	Los Angeles	3,389.693	3,763.392	3,163.157	3,191.904	3,165.034	3,077.824	3,373.516	23,124.521
2	San Diego	594.150	703.396	846.676	940.887	938.126	999.644	1,266.566	6,289.445
3	Santa Clara	609.619	732.149	850.425	859.383	825.760	825.955	824.144	5,527.435
4	Orange	669.345	676.043	701.167	691.281	684.791	657.689	655.515	4,735.830
5	Alameda	450.578	734.292	779.352	567.555	543.688	587.409	681.330	4,344.204
6	San Francisco	197.352	242.919	256.434	265.398	282.243	292.433	448.098	1,984.877
7	San Mateo	269.319	286.813	172.412	162.060	170.842	174.889	178.775	1,415.110
8	Santa Barbara	115.515	135.971	150.389	150.943	152.040	147.187	134.443	986.489
9	Yolo	79.545	88.460	92.861	91.612	92.863	101.313	129.705	676.358
10	Sacramento	19.151	24.736	31.726	35.580	40.542	36.710	30.890	219.334
11	Ventura	25.351	37.147	35.114	26.692	31.675	27.594	24.432	208.004
12	Santa Cruz	16.652	19.008	22.858	23.429	25.366	28.474	30.365	166.152
13	Riverside	14.651	17.688	21.291	19.824	22.883	22.079	25.584	143.999
14	Kern	23.422	23.191	24.154	3.971	2.939	2.898	4.715	85.289
15	San Bernardino	11.127	9.081	10.502	12.993	15.081	20.598	22.729	102.112
16	Contra Costa	8.006	9.128	10.997	15.957	17.839	19.808	19.163	100.898
17	Sonoma	0.540	1.598	6.419	6.610	7.071	6.274	7.131	35.643
18	Monterey	1.641	3.207	4.071	3.570	5.256	5.164	4.841	27.751
19	Marin	2.357	0.760	0.512	0.781	1.049	1.383	2.900	9.743
20	Fresno	0.282	0.602	1.014	1.154	1.423	2.351	1.776	8.603
21	San Luis Obispo	0.519	1.187	1.182	1.215	1.531	1.371	1.857	8.862
22	San Joaquin	2.194	2.329	2.450	0.543	0.752	0.707	0.650	9.625
23	Lake	0.738	0.738	0.738	1.969	2.294	1.598	0.403	8.479
24	Humboldt	0.288	0.593	0.464	1.044	1.159	1.147	1.090	5.786
25	Butte	0.063	0.193	0.437	0.137	0.145	1.262	0.427	2.663
26	Napa	0.169	0.120	0.290	0.182	0.226	0.350	0.331	1.668
27	Placer	0.024	0.233	0.221	0.221	0.258	0.123	0.323	1.404
28	Solano	0.414	0.256	0.292	0.143	0.193	0.166	0.115	1.578
29	Inyo	0.060	0.060	0.084	0.298	0.298	0.316	0.054	1.171
30	Kings	0.133	0.184	0.184	0.160	0.175	0.178	0.045	1.059
31	Modoc	0.010	0.100	0.100	0.100			0.346	0.656
32	Tulare			0.000	0.000	0.000	0.008	0.485	0.493
33	Stanislaus	0.159	0.159		0.055	0.070	0.021	0.143	0.606
34	Imperial	0.075	0.101	0.124	0.115	0.060	0.040	0.114	0.631
35	Shasta	0.000	0.050	0.050	0.103	0.053	0.025	0.163	0.445
36	Trinity			0.042	0.059	0.052	0.113	0.092	0.358
37	Mendocino	0.050	0.084	0.067	0.087	0.020	0.030	0.010	0.347
38	Tuolumne	0.172	0.122					0.050	0.343
39	El Dorado						0.091	0.140	0.231
40	Plumas		0.050	0.100	0.100				0.250
41	San Benito		0.037	0.037	0.082	0.082			0.237
42	Siskiyou			0.060	0.068	0.039	0.039		0.205
43	Glenn	0.050	0.050	0.050				0.010	0.160
44	Yuba				0.050	0.050			0.099
45	Mariposa							0.032	0.032
46	Tehama	0.026	0.026						0.051
47	Calaveras				0.050				0.050
48	Colusa	0.050							0.050
49	Del Norte						0.025		0.050
50	Lassen							0.030	0.030
	<i>Not Specified</i>	0.000	0.000	0.017	0.000	0.163	0.084	0.000	0.264
	FY Total:	6,503.490	7,516.254	7,188.521	7,078.366	7,034.127	7,045.371	7,873.550	50,239.679

B. Department of Commerce

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	2000	County Total
1	Santa Clara	4.335	7.524	19.015	19.230	27.951	42.105	39.617	36.934	196.710
2	San Diego	9.904	14.963	17.700	18.873	27.280	24.733	18.639	16.918	149.010
3	Los Angeles	1.755	3.185	4.134	3.505	3.327	8.902	7.916	7.577	40.301
4	San Mateo	0.105	0.584	3.095	3.189	3.174	7.113	6.166	4.688	28.113
5	San Francisco	0.101	0.136	3.151	3.130	2.942	3.932	4.072	3.915	21.378
6	Alameda	0.113	0.358	2.020	2.279	1.926	2.976	2.499	2.573	14.745
7	Sacramento	0.568	0.904	1.852	2.067	2.048	1.662	1.443	2.852	13.394
8	Contra Costa	0.035		1.000	1.000	2.160	2.246	1.246	0.931	8.617
9	Orange	0.108	0.441	1.282	1.282	1.013	1.625	1.124	1.124	7.999
10	San Bernardino				1.238	1.238	1.238	1.238	1.238	7.427
11	Ventura			0.500	1.030	1.030	1.143	0.643	0.143	4.630
12	Monterey	0.144	0.302	0.413	0.196	0.279	0.329	0.228	0.396	2.288
13	Santa Barbara	0.214	0.438	0.370	0.273	0.228	0.180	0.252	0.228	2.184
14	Yolo	0.263	0.382	0.288	0.119	0.077	0.119	0.183	0.182	1.612
15	Santa Cruz	0.094	0.094	0.134	0.069	0.072	0.227	0.410	0.259	1.360
16	Marin	0.025	0.025	0.000	0.054	0.054	0.141	0.087	0.087	0.473
17	Humboldt						0.044	0.054	0.230	0.328
18	Sonoma							0.130	0.130	0.261
19	San Joaquin	0.013	0.013	0.013	0.147	0.060				0.244
20	Trinity						0.073	0.073	0.073	0.218
21	Kern					0.100	0.100			0.200
22	Fresno							0.193		0.193
23	Siskiyou			0.060	0.060					0.120
24	Solano	0.036	0.036							0.072
25	Del Norte					0.025	0.025			0.050
26	Mendocino							0.035		0.035
27	Butte			0.007	0.007	0.007				0.020
	Fiscal Year Total:	17.813	29.885	56.802	57.747	75.077	98.411	85.544	80.704	501.984

C. Department of Defense

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	2000	County Total
1	Los Angeles	972.729	1,251.554	1,389.259	1,388.834	1,514.037	1,365.459	1,476.464	1,259.712	10,618.048
2	San Diego	236.659	292.878	377.565	422.854	461.400	499.653	447.955	393.457	3,132.423
3	Santa Clara	287.154	367.961	408.168	411.794	413.856	391.490	258.877	260.931	2,800.231
4	Orange	295.324	299.101	311.291	311.669	317.828	296.819	262.806	235.400	2,330.238
5	Santa Barbara	41.103	47.600	58.550	66.673	65.224	62.302	49.635	41.453	432.541
6	San Mateo	38.271	38.037	39.923	32.614	37.249	36.802	28.545	27.727	279.168
7	Ventura	23.657	34.526	31.986	23.168	27.516	24.276	22.060	23.440	210.630
8	Alameda	16.014	25.474	24.987	24.972	29.831	28.541	22.532	19.334	191.684
9	Sacramento	7.344	8.857	13.403	10.686	11.723	12.431	8.135	8.459	81.038
10	Kern	21.112	21.163	20.789	0.365	0.314	0.347	0.790	1.636	66.515
11	San Francisco	7.167	10.352	8.113	8.357	5.061	5.594	3.491	3.503	51.638
12	Riverside	3.405	3.807	5.094	5.650	7.800	6.174	5.204	13.066	50.200
13	Contra Costa	1.113	1.163	1.528	6.611	6.771	6.763	7.136	6.038	37.123
14	San Bernardino	4.384	2.364	1.180	1.594	1.822	2.288	1.891	2.078	17.601
15	Santa Cruz	0.100	0.588	1.680	2.351	2.128	2.765	1.957	0.835	12.403
16	Sonoma	0.326	0.690	1.123	1.271	1.381	0.827	1.193	1.198	8.008
17	Monterey	0.269	0.218	0.911	1.016	1.495	1.235	0.781	0.983	6.908
18	Yolo	0.706	0.908	0.860	0.716	1.011	0.894	0.382	0.744	6.221
19	San Joaquin	1.699	1.699	1.699		0.320	0.320		0.096	5.831
20	San Luis Obispo	0.127	0.671	0.577	0.577	0.749	0.522	0.865	1.114	5.200
21	Marin	1.702	0.025	0.026	0.091	0.324	0.619	0.541	0.645	3.973
22	Fresno						0.741	0.741	0.741	2.224
23	Lake				0.035	0.360	0.325	0.325	0.111	1.156
24	Inyo	0.026	0.026	0.050	0.298	0.248	0.248			0.896
25	Napa	0.169	0.120	0.108		0.019	0.144	0.125	0.125	0.808
26	Placer	0.024	0.159	0.135	0.135	0.135				0.589
27	Stanislaus				0.049	0.064	0.015	0.143	0.173	0.442
28	Solano		0.039	0.039		0.065	0.065	0.107	0.044	0.358
29	Tuolumne	0.122	0.122					0.050	0.050	0.343
30	San Benito		0.037	0.037	0.082	0.082				0.237
31	Yuba				0.050	0.050				0.099
32	Mendocino			0.033	0.033					0.065
33	El Dorado						0.031	0.031		0.062
34	Siskiyou					0.031	0.031			0.062
35	Butte	NA	NA	NA	NA	NA	NA			NA
36	Humboldt					NA	NA	NA		NA
	<i>Not Specified</i>	NA	NA	NA	NA	0.079	NA	NA	0.060	0.139
	Fiscal Year Total:	1,960.704	2,410.137	2,699.111	2,722.544	2,908.973	2,747.721	2,602.759	2,303.152	20,355.101

D. Department of Energy

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	2000	County Total
1	Alameda	268.523	513.618	548.036	338.093	312.177	347.507	361.031	384.747	3,073.733
2	San Mateo	213.840	213.878	95.055	94.832	95.009	95.647	97.744	98.046	1,004.050
3	Los Angeles	62.170	63.567	44.272	45.400	47.437	45.041	45.683	43.644	397.215
4	San Diego	13.686	13.526	41.986	41.036	41.086	41.211	41.784	45.557	279.871
5	Yolo	14.420	12.402	12.630	12.990	12.249	13.461	14.015	14.742	106.909
6	Santa Clara	6.621	9.091	10.023	13.463	12.618	13.858	18.631	19.846	104.151
7	Orange	12.203	12.583	12.454	4.731	5.205	5.028	12.695	14.664	79.564
8	Sacramento	0.717	2.472	5.542	6.325	8.467	6.374	7.310	7.582	44.790
9	San Francisco	6.055	6.069	3.021	3.128	3.908	4.031	1.000	5.093	32.305
10	Santa Barbara	3.117	3.904	3.811	3.935	3.565	3.534	3.530	4.921	30.317
11	Santa Cruz	3.477	3.380	3.471	3.489	3.489	3.748	3.837	3.652	28.543
12	Sonoma	0.013	0.013	4.559	4.559	4.741	4.741	4.778	4.948	28.352
13	Riverside	0.367	1.126	1.126	1.181	1.171	1.171	1.283	1.309	8.736
14	Lake	0.738	0.738	0.738	1.934	1.934	1.273	0.078	0.364	7.798
15	Contra Costa	0.775	0.775	0.600	0.785	0.743	0.642	0.615	0.371	5.309
16	San Bernardino				0.169	0.169	1.613	1.444		3.394
17	Humboldt				0.592	0.592	0.592	0.592	0.592	2.961
18	Marin		0.162	0.162	0.256	0.294	0.294	0.294	0.310	1.772
19	Ventura	0.099	0.099	0.099	0.287	0.394	0.295	0.295	0.107	1.676
20	Modoc							0.346	0.346	0.692
21	Kern	0.013	0.013		0.018	0.018	0.018	0.136	0.241	0.458
22	Monterey	0.050	0.050	0.050					0.277	0.426
23	Butte	0.013	0.013	0.013					0.097	0.135
24	Solano					0.038	0.038			0.075
25	Fresno			0.013	0.013	0.013				0.040
26	San Joaquin	0.013	0.013	0.013						0.039
Fiscal Year Total:		606.911	857.492	787.676	577.218	555.318	590.117	617.119	651.456	5,243.308

E. Department of Transportation

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	2000	County Total
1	Los Angeles	2.108	11.623	11.829	11.449	11.120	12.346	13.123	15.615	89.215
2	San Diego	2.852	5.711	6.244	5.837	6.181	6.819	5.645	3.907	43.196
3	Santa Clara	0.629	0.839	1.237	1.135	0.672	4.785	5.625	13.587	28.509
4	San Francisco	0.233	0.416	1.388	2.424	3.401	4.525	5.495	6.680	24.563
5	Alameda	0.473	1.547	1.547	1.061	2.064	2.079	2.955	10.697	22.423
6	Sacramento	0.273	0.374	0.374	1.231	2.774	3.656	4.516	5.480	18.679
7	San Mateo	0.345	0.314	0.286	0.200	3.306	3.306	3.306	3.653	14.715
8	Santa Barbara	1.542	1.542	1.542	0.037	1.491	1.491	1.491	2.405	11.541
9	Orange	0.520	0.521	1.619	1.135	0.778	1.027	1.027	0.796	7.421
10	Riverside	0.015							1.988	2.003
11	Ventura	0.012	0.012	0.012	0.112	0.012	0.012	0.143	0.131	0.446
12	Santa Cruz					0.094	0.094	0.094	0.094	0.374
13	San Bernardino			0.054	0.054	0.006	0.006			0.120
14	San Luis Obispo					0.020	0.020	0.020	0.020	0.080
15	Contra Costa	0.010	0.010							0.019
Fiscal Year Total:		9.011	22.965	26.133	24.628	31.918	40.159	43.439	65.052	263.305

F. Department of Veterans' Affairs

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	2000	County Total
1	Los Angeles	20.967	27.866	32.127	37.160	47.900	57.515	59.280	49.188	332.004
2	San Diego	32.780	34.633	35.334	38.242	41.095	47.742	49.668	49.799	329.292
3	San Francisco	12.416	15.138	17.466	18.691	28.711	34.581	46.175	53.598	226.777
4	Santa Clara	13.891	17.177	18.767	20.070	24.113	24.162	27.588	26.910	172.677
5	Contra Costa	4.088	4.195	5.097	5.420	5.866	7.978	7.731	7.593	47.970
6	San Bernardino	3.970	3.834	4.173	4.212	4.716	4.956	6.193	6.677	38.731
7	Fresno	0.160	0.152	0.133	0.165	0.176	0.226	0.193	0.228	1.433
8	Alameda	NA	NA							NA
Fiscal Year Total:		88.274	102.995	113.097	123.960	152.577	177.160	196.829	193.993	1,148.885

Note: Alameda funding is not classified; it's just missing from the database.

G. Environmental Protection Agency

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	2000	County Total
1	Los Angeles	5.354	8.296	7.877	7.714	10.451	4.921	3.721	5.154	53.487
2	Santa Clara	2.191	2.573	2.766	2.956	2.911	2.445	1.024	1.042	17.909
3	Yolo	1.149	1.362	1.649	1.416	1.631	1.768	1.726	1.838	12.538
4	Sacramento	1.540	1.821	2.711	2.534	2.257	0.530	0.037	0.384	11.812
5	Alameda	0.664	0.808	1.455	1.094	0.985	1.610	1.483	1.563	9.662
6	Riverside	0.138	0.139	0.432	0.432	0.294	2.033	2.042	2.337	7.847
7	Orange	1.479	1.776	1.481	1.361	0.266	0.293	0.233	0.281	7.170
8	San Diego	0.990	1.036	1.089	0.183	0.067	1.065	1.229	1.229	6.888
9	San Bernardino	0.208	0.208	0.208	0.208	0.208	0.974	0.974	0.766	3.756
10	Santa Cruz	0.010	0.097	0.130	0.088	0.369	0.475	0.475	0.475	2.119
11	Santa Barbara	0.233	0.378	0.377	0.377	0.151	0.188	0.140	0.140	1.984
12	San Mateo	0.185	0.233	0.214	0.107	0.077	0.063		0.202	1.079
13	San Francisco	0.049	0.056	0.056	0.029	0.112	0.172	0.171	0.078	0.723
14	Sonoma		0.068	0.068	0.068			0.015	0.015	0.203
15	San Joaquin							0.015	0.015	0.045
16	Contra Costa		0.033							0.033
Fiscal Year Total:		14.222	18.850	20.512	18.567	19.780	16.552	13.269	15.503	137.255

H. Department of Health & Human Services

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	2000*	County Total*
1	Los Angeles	272.001	327.706	351.229	354.848	355.742	349.715	599.931	--	2,611.172
2	San Diego	222.130	257.412	277.167	349.841	294.517	308.381	627.658	--	2,337.105
3	San Francisco	164.679	203.086	213.869	217.460	225.914	225.265	372.949	--	1,623.222
4	Santa Clara	119.747	137.400	143.660	153.373	154.651	155.627	264.137	--	1,128.594
5	Alameda	88.193	104.259	110.125	110.089	109.775	111.564	194.081	--	828.085
6	Yolo	42.152	48.226	50.613	50.625	53.024	55.045	79.431	--	379.117
7	Orange	30.428	38.167	41.690	41.671	43.895	43.568	69.273	--	308.692
8	San Mateo	9.046	10.395	11.000	9.352	8.969	8.446	19.026	--	76.234
9	Santa Barbara	6.940	7.985	6.815	7.076	7.017	6.286	10.540	--	52.658
10	Santa Cruz	4.848	5.445	6.223	6.232	7.094	6.408	10.033	--	46.283
11	Riverside	5.145	5.888	6.026	5.229	6.015	5.444	8.563	--	42.309
12	San Bernardino	2.035	2.064	3.035	3.428	3.362	3.757	5.894	--	23.574
13	Sacramento	2.139	3.015	3.121	2.065	1.927	2.326	2.885	--	17.478
14	Contra Costa	1.683	2.609	2.327	1.581	1.646	1.370	1.592	--	12.808
15	Marin	0.456	0.456	0.188	0.319	0.297	0.243	1.931	--	3.891
16	San Joaquin	0.413	0.532	0.601	0.319	0.341	0.259	0.334	--	2.798
17	Butte						1.234	0.096	--	1.330
18	Sonoma		0.164	0.164	0.164	0.197	0.197	0.281	--	1.166
19	Fresno	0.023	0.101	0.288	0.288	0.251	0.102	0.078	--	1.131
20	Ventura	0.147	0.147	0.278	0.278	0.197	0.050	--	--	1.099
21	Humboldt	0.135	0.327	0.117	0.115	0.090	0.033	0.067	--	0.884
22	Monterey	0.111	0.137	0.137	0.137	0.076	--	--	--	0.600
23	San Luis Obispo				0.124	0.124	0.124	0.124	--	0.495
24	Tulare							0.476	--	0.476
25	Shasta		0.050	0.050	0.103	0.053	0.025	0.163	--	0.445
26	Placer					0.050	0.050	0.250	--	0.349
27	Stanislaus	0.159	0.159						--	0.318
28	Modoc		0.100	0.100	0.100				--	0.300
29	Plumas		0.050	0.100	0.100				--	0.250
30	El Dorado						0.060	0.109	--	0.169
31	Glenn	0.050	0.050	0.050					--	0.150
32	Inyo					0.050	0.050		--	0.100
33	Mendocino	0.050	0.050						--	0.099
34	Solano			0.080					--	0.080
35	Imperial				0.050			0.067	--	0.067
36	Calaveras					0.050			--	0.050
37	Colusa	0.050							--	0.050
38	Napa			0.025	0.025				--	0.050
39	Tuolumne	0.050							--	0.050
40	Lassen						0.030	--	0.030	--
Fiscal Year Total:		972.811	1,155.983	1,229.079	1,314.992	1,275.271	1,285.627	2,269.995	--	9,503.758

FY2000 data is unavailable at this time.

I. National Aeronautics & Space Administration

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	2000	County Total
1	Los Angeles	1,972.753	1,982.052	1,227.230	1,262.476	1,093.222	1,141.613	1,071.664	843.394	10,594.405
2	Orange	320.161	311.610	318.367	318.532	305.539	297.916	295.227	303.657	2,471.008
3	Santa Clara	147.042	153.802	207.554	197.278	151.172	147.131	163.395	170.606	1,337.980
4	Santa Barbara	41.328	50.427	50.958	46.545	48.963	49.972	43.899	43.543	375.635
5	Alameda	28.414	30.191	30.246	30.741	28.618	31.049	30.178	26.351	235.788
6	San Diego	22.306	24.317	26.978	22.908	26.232	25.993	27.779	26.044	202.556
7	San Mateo	2.558	15.767	16.066	16.123	16.889	16.846	16.399	16.399	117.047
8	Kern	2.224	1.954	3.281	3.490	2.438	2.396	3.750	62.281	81.814
9	Sacramento	5.677	6.139	3.847	6.259	6.869	6.195	3.936	3.240	42.162
10	San Bernardino	0.273	0.206	0.351	1.985	3.427	5.589	4.889	4.615	21.335
11	San Francisco	1.677	2.215	2.862	2.300	2.946	3.035	3.339	2.472	20.846
12	Yolo	1.370	1.825	2.261	2.187	2.075	2.665	2.415	2.170	16.968
13	Ventura	1.399	1.831	1.677	1.809	2.403	2.296	1.771	2.777	15.964
14	Monterey	0.484	1.726	1.623	1.383	2.307	2.580	2.247	2.392	14.741
15	Santa Cruz	0.952	1.068	1.481	1.731	1.797	2.075	2.039	1.194	12.337
16	Riverside	0.826	0.573	0.946	0.893	1.396	0.930	0.879	0.805	7.249
17	Sonoma	0.181	0.644	0.503	0.523	0.677	0.405	0.488	0.532	3.953
18	San Luis Obispo	0.262	0.305	0.374	0.305	0.319	0.316	0.386	0.365	2.631
19	Contra Costa	0.039	0.039	0.148	0.247	0.143	0.238	0.344	0.310	1.508
20	Fresno	0.034	0.034	0.048	0.206	0.206	0.281	0.150	0.137	1.094
21	Napa			0.157	0.157	0.207	0.207	0.207	0.157	1.092
22	Butte		0.020	0.020	0.070	0.050		0.200	0.367	0.726
23	Placer		0.073	0.073	0.073	0.073	0.073	0.073		0.441
24	Solano	0.227				0.050	0.050			0.327
25	Marin	0.072	0.072	0.095	0.039	0.017	0.017			0.312
26	Kings		0.051	0.051	0.026	0.041	0.015	0.015		0.199
27	Mariposa							0.032	0.032	0.064
28	Humboldt			0.008	0.008	0.021	0.013	0.004		0.053
Fiscal Year Total:		2,550.259	2,586.944	1,897.205	1,918.293	1,698.097	1,739.894	1,675.704	1,513.839	15,580.234

J. National Science Foundation

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	2000	County Total
1	Los Angeles	71.444	79.226	83.592	69.741	71.426	80.424	83.443	89.973	629.269
2	San Diego	51.589	56.592	59.634	38.918	38.195	41.437	43.834	42.701	372.899
3	Alameda	36.720	40.522	40.313	35.825	36.628	41.546	48.124	51.423	331.101
4	Santa Clara	27.245	34.931	37.589	36.488	32.233	39.741	41.276	37.993	287.496
5	Santa Barbara	20.568	22.976	27.211	24.889	23.981	21.961	23.931	31.012	196.528
6	Yolo	13.452	15.236	15.540	13.473	12.853	15.776	18.757	21.142	126.230
7	Orange	8.967	11.380	12.440	10.209	9.742	10.968	12.671	14.300	90.678
8	Santa Cruz	5.456	7.268	7.915	6.282	5.702	6.544	7.390	9.281	55.839
9	San Mateo	4.364	6.426	4.945	3.885	4.524	5.862	7.348	6.384	43.737
10	Riverside	4.020	4.679	5.253	3.916	3.996	4.089	5.204	6.103	37.261
11	San Francisco	3.090	3.718	3.668	3.328	2.327	4.047	5.290	6.190	31.659
12	Monterey	0.569	0.742	0.904	0.836	1.089	0.966	1.535	1.526	8.166
13	San Luis Obispo	0.098	0.184	0.173	0.145	0.238	0.325	0.364	0.388	1.915
14	Contra Costa	0.132	0.150	0.148	0.212	0.176	0.188	0.077	0.073	1.156
15	San Bernardino	0.231	0.253	0.165	0.054	0.023	0.109	0.172	0.137	1.144
16	San Joaquin	0.055	0.070	0.122	0.075	0.029	0.111	0.297	0.297	1.055
17	Humboldt	0.040	0.106	0.106	0.105	0.043	0.161	0.183	0.183	0.926
18	Sacramento	0.055	0.155	0.139	0.045	0.062	0.045	0.118	0.153	0.773
19	Kern	0.074	0.060	0.071	0.066	0.051	0.037	0.019	0.019	0.398
20	Butte	0.009	0.043	0.043		0.028	0.028	0.052	0.081	0.285
21	Sonoma			0.003	0.003	0.029	0.034	0.021	0.128	0.218
22	Fresno	0.012	0.013	0.050	0.037			0.030	0.030	0.172
23	Mendocino			0.034	0.034	0.054	0.020	0.020		0.163
24	Marin	0.099	0.017	0.025	0.008					0.149
25	Inyo	0.034	0.034	0.034						0.103
26	Ventura	0.031	0.031	0.023						0.085
27	Tehama	0.026	0.026							0.051
28	Napa							0.033		0.033
29	Siskiyou				0.008	0.008	0.008			0.023
30	Stanislaus				0.006	0.006	0.006			0.018
	<i>Not Specified</i>			0.017						0.017
Fiscal Year Total:		248.379	284.875	300.158	248.608	243.409	274.432	300.136	319.551	2,219.546

K. US Department of Agriculture

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	2000	County Total
1	Yolo	5.408	7.350	7.895	8.913	8.569	9.357	10.839	9.343	67.674
2	Alameda	6.283	7.050	7.544	7.852	7.918	7.454	7.282	9.917	61.300
3	Riverside	0.444	1.061	1.453	1.666	1.801	1.809	2.101	2.308	12.643
4	Sacramento	0.598	0.562	0.212	4.010	1.436	0.803	0.665	1.060	9.346
5	San Diego	0.522	0.596	0.816	0.817	0.837	0.755	0.749	0.543	5.634
6	Los Angeles	0.301	0.450	0.699	0.750	0.668	0.458	0.865	0.762	4.953
7	Santa Clara	0.117	0.125	0.300	0.262	0.349	0.247	0.240	0.346	1.986
8	Humboldt	0.109	0.148	0.226	0.224	0.362	0.242	0.179	0.280	1.770
9	Santa Barbara	0.075	0.170	0.190	0.198	0.287	0.183	0.114	0.197	1.414
10	San Francisco		0.092	0.253	0.286	0.236	0.182	0.160	0.086	1.295
11	Santa Cruz	0.018	0.066	0.048	0.098	0.126	0.217	0.324	0.383	1.280
12	Orange	0.025	0.128	0.103	0.134	0.137	0.088	0.284	0.351	1.249
13	Kings	0.133	0.133	0.133	0.133	0.133	0.133			0.800
14	Fresno	0.005	0.005	0.017	0.029	0.272	0.264	0.076	0.130	0.796
15	San Luis Obispo	0.032	0.027	0.059	0.065	0.082	0.065	0.098	0.134	0.561
16	Imperial	0.075	0.101	0.119	0.110	0.055	0.035	0.048	0.013	0.555
17	San Bernardino	0.025	0.097	0.099	0.100	0.073	0.038	0.036	0.003	0.471
18	San Mateo	0.020	0.020	0.075	0.075	0.075				0.264
19	Trinity			0.042	0.059	0.052	0.040	0.019	0.019	0.232
20	Monterey	0.013	0.013	0.013	0.002	0.002	0.047	0.051	0.051	0.194
21	Inyo						0.018	0.054	0.095	0.166
22	Butte	0.004	0.058	0.054				0.017	0.020	0.154
23	Solano	0.009	0.009	0.035	0.035	0.040	0.014	0.008		0.149
24	Contra Costa	0.002	0.002	0.029	0.027	0.027				0.087
25	Sonoma	0.020	0.020							0.040
26	Ventura	0.004		0.006	0.006	0.007	0.007	0.005	0.002	0.038
27	Tulare			NA	NA	NA	0.008	0.009	0.014	0.031
28	Mendocino						0.010	0.010	0.010	0.030
29	Marin	0.003	0.003	0.009	0.008	0.001				0.023
30	San Joaquin	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.001	0.022
31	Modoc	0.010								0.010
32	Kern			NA	NA	NA	NA	NA	NA	NA
33	Shasta	NA	NA							
	Fiscal Year Total:	14.258	18.287	20.433	25.863	23.550	22.476	24.237	26.066	175.170

L. All Other Agencies Combined (DED, DOI, DOJ, DOL, HUD, NRC and SSA)

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	2000	County Total
1	Alameda	5.180	10.248	12.843	15.316	13.763	13.026	11.165	8.628	90.169
2	Los Angeles	8.006	7.691	10.541	9.793	9.502	11.194	11.236	12.393	80.357
3	San Francisco	1.886	1.641	2.534	6.006	6.406	7.057	5.957	5.983	37.470
4	Santa Cruz	1.696	1.003	1.776	3.088	4.494	5.923	3.806	3.489	25.275
5	Santa Clara	0.647	0.724	1.316	2.950	4.747	4.301	3.672	2.319	20.676
6	San Diego	0.721	1.675	2.104	1.338	1.205	1.856	1.602	1.273	11.772
7	Sacramento	0.196	0.354	0.443	0.314	2.936	2.688	1.808	1.956	10.695
8	Yolo	0.623	0.770	1.124	1.175	1.373	2.227	1.958	1.286	10.536
9	Riverside	0.291	0.414	0.961	0.856	0.410	0.428	0.308	0.438	4.105
10	Fresno	0.048	0.297	0.465	0.415	0.507	0.738	0.508	0.620	3.598
11	Santa Barbara	0.395	0.365	0.317	0.235	0.467	0.446	0.454	0.546	3.226
12	San Mateo	0.125	0.422	0.648	0.508	0.624	0.442	0.241	0.196	3.206
13	Orange	0.130	0.335	0.439	0.554	0.387	0.358	0.177	0.379	2.758
14	Contra Costa	0.095	0.184	0.120	0.074	0.306	0.383	0.422	0.516	2.100
15	Butte	0.036	0.059	0.300	0.060	0.060		0.061	0.096	0.673
16	Sonoma				0.023	0.046	0.070	0.240	0.217	0.597
17	Marin			0.007	0.007	0.063	0.070	0.047	0.010	0.203
18	Humboldt	0.005	0.012	0.007	0.000	0.051	0.062	0.011	0.023	0.171
19	Kern			0.014	0.031	0.018		0.018	0.056	0.137
20	Solano	0.035	0.066	0.031						0.131
21	San Bernardino					0.036	0.036			0.072
22	Kings						0.030	0.030		0.060
23	Monterey		0.019	0.019		0.008	0.008			0.053
24	Ventura	0.002		0.002	0.002	0.015	0.015			0.037
25	Placer			0.013	0.013					0.025
26	Imperial			0.005	0.005	0.005	0.005			0.021
27	Glenn							0.010	0.010	0.020
	<i>Not Specified</i>					0.084	0.084	0.000		0.169
	Fiscal Year Total:	20.117	26.279	36.028	42.763	47.497	51.446	43.746	40.434	308.312

V. California's Unclassified R&D Funding, By Performer Type and County

A. 1993-1999 Aggregated over all agencies

Rank	County Name	Individual Business	Public Educ. Institution	Private Educ. Institution	Federal Govt	Non-Profit, Non-Educ. Institution	State or Local Govt	Not Specified	Other Govt	Other	Private Individual	County Total
1	Los Angeles	16,549.641 71.57%	1,471.374 6.36%	3,626.185 15.68%	732.187 3.17%	660.442 2.86%	11.913 0.05%	13.826 0.06%	47.671 0.21%	9.774 0.04%	1.507 0.01%	23,124.521
2	San Diego	3,263.825 51.89%	1,546.309 24.59%	17.637 0.28%	283.069 4.50%	1,043.480 16.59%	129.902 2.07%	1.507 0.02%	0.400 0.01%	2.184 0.03%	1.132 0.02%	6,289.445
3	Santa Clara	3,367.655 60.93%	72.467 1.31%	1,771.344 32.05%	157.242 2.84%	130.756 2.37%	16.650 0.30%	7.538 0.14%	0.050 0.00%	0.050 0.00%	3.682 0.07%	5,527.435
4	Orange	4,263.091 90.02%	425.945 8.99%	0.490 0.01%		9.798 0.21%	1.654 0.03%	33.682 0.71%	1.061 0.02%		0.109 0.00%	4,735.830
5	Alameda	208.668 4.80%	1,013.643 23.33%	29.961 0.69%	2,686.067 61.83%	389.736 8.97%	9.189 0.21%	5.599 0.13%	0.030 0.00%	0.779 0.02%	0.532 0.01%	4,344.204
6	San Francisco	199.132 10.03%	1,475.694 74.35%	21.152 1.07%	173.929 8.76%	82.577 4.16%	26.333 1.33%	4.583 0.23%	1.124 0.06%	0.050 0.00%	0.303 0.02%	1,984.877
7	San Mateo	120.375 8.51%	0.436 0.03%	1.621 0.11%	904.120 63.89%	386.829 27.34%	1.599 0.11%	0.100 0.01%			0.030 0.00%	1,415.110
8	Santa Barbara	648.273 65.72%	276.384 28.02%	15.805 1.60%	43.030 4.36%	2.902 0.29%	0.028 0.00%	0.011 0.00%	0.056 0.01%			986.489
9	Yolo	5.788 0.86%	668.030 98.77%	0.060 0.01%	NA	2.299 0.34%	0.102 0.02%				0.080 0.01%	676.358
10	Sacramento	120.135 54.77%	10.086 4.60%	0.717 0.33%	3.694 1.68%	2.590 1.18%	71.590 32.64%	0.038 0.02%	9.220 4.20%	1.152 0.53%	0.112 0.05%	219.334
11	Ventura	205.661 98.87%		2.109 1.01%	0.028 0.01%	0.023 0.01%	0.069 0.03%	0.060 0.03%	0.053 0.03%			208.004
12	Santa Cruz	5.803 3.49%	151.898 91.42%	4.696 2.83%	NA	3.254 1.96%	0.324 0.20%		0.052 0.03%	0.091 0.05%	0.033 0.02%	166.152
13	Riverside	39.293 27.29%	100.039 69.47%	0.592 0.41%	NA	0.200 0.14%	0.118 0.08%	0.325 0.23%	3.250 2.26%	0.015 0.01%	0.167 0.12%	143.999
14	San Bernardino	29.916 29.30%	1.353 1.33%	35.322 34.59%	33.813 33.11%	0.762 0.75%	0.027 0.03%	0.038 0.04%	0.882 0.86%			102.112
15	Contra Costa	55.863 55.37%	0.328 0.32%	0.233 0.23%	40.376 40.02%	2.167 2.15%	1.314 1.30%	0.080 0.08%		0.538 0.53%		100.898
16	Kern	65.849 77.21%	0.842 0.99%		17.149 20.11%	1.449 1.70%						85.289
17	Sonoma	33.017 92.63%	1.106 3.10%		0.00%	1.165 3.27%	0.355 1.00%					35.643
18	Monterey	15.810 56.97%	1.739 6.26%	0.117 0.42%	1.764 6.35%	1.870 6.74%	0.578 2.08%	3.384 12.20%		2.490 8.97%		27.751

Rank	County Name	Individual Business	Public Educ. Institution	Private Educ. Institution	Federal Govt	Non-Profit Non-Edu. Institution	State or Local Govt	Not Specified	Other Govt	Other	Private Individual	County Total
19	Marin	6.960 71.44%		0.000 0.00%	1.753 17.99%	0.507 5.20%	0.034 0.35%		0.489 5.02%			9.743
20	San Joaquin	5.602 58.20%	0.083 0.86%	3.006 31.23%		0.639 6.64%	0.051 0.53%	0.245 2.54%				9.625
21	San Luis Obispo	2.141 24.16%	6.621 74.72%		NA	0.012 0.14%		0.028 0.31%	0.060 0.68%			8.862
22	Fresno	1.957 22.74%	2.460 28.60%	1.550 18.01%	1.206 14.01%	0.519 6.03%	0.900 10.46%		0.012 0.14%	NA		8.603
23	Lake	1.045 12.32%					7.434 87.68%					8.479
24	Humboldt	0.053 0.92%	4.865 84.08%	0.089 1.53%		0.624 10.78%	0.156 2.69%					5.786
25	Butte	1.652 62.02%	0.744 27.95%				0.247 9.27%	0.020 0.76%				2.663
26	Napa	1.618 97.00%					0.050 3.00%					1.668
27	Solano	1.099 69.64%	0.211 13.39%		0.023 1.48%	0.100 6.34%	0.069 4.40%		0.075 4.75%			1.578
28	Placer	0.938 66.83%	0.441 31.39%				0.025 1.78%					1.404
29	Inyo	0.896 76.53%		0.103 8.82%		0.171 14.65%						1.171
30	Kings	0.800 75.54%			0.199 18.80%			0.060 5.65%				1.059
31	Modoc					0.391 59.57%	0.010 1.52%	0.255 38.91%				0.656
32	Imperial		0.039 6.19%		NA		0.301 47.66%	0.291 46.15%				0.631
33	Stanislaus	0.588 97.03%	0.018 2.97%									0.606
34	Tulare	0.476 96.65%			NA				0.017 3.35%			0.493
35	Shasta	0.212 47.60%			NA	0.083 18.72%	0.150 33.69%					0.445
36	Trinity					0.213 59.45%	0.145 40.55%					0.358
37	Mendocino	0.065 18.71%	0.028 8.03%			0.155 44.64%	0.099 28.62%					0.347
38	Tuolumne	0.293 85.42%				0.050 14.58%						0.343
39	Plumas	0.100				0.150						0.250

Rank	County Name	Individual Business	Public Educ. Institution	Private Educ. Institution	Federal Govt	Non-Profit Non-Educ. Institution	State or Local Govt	Not Specified	Other Govt	Other	Private Individual	County Total
		40.00%				60.00%						
40	San Benito	0.237 100.00%										0.237
41	El Dorado	0.062 26.90%				0.169 73.10%						0.231
42	Siskiyou	0.062 30.32%				0.143 69.68%						0.205
43	Glenn	0.010 6.16%			0.150 93.84%							0.160
44	Yuba	0.099 100.00%										0.099
45	Tehama					0.051 100.00%						0.051
46	Del Norte				0.050 100.00%							0.050
47	Colusa				0.050 100.00%							0.050
48	Calaveras				0.050 100.00%							0.050
49	Mariposa	0.032 100.00%										0.032
50	Lassen				0.030 100.00%							0.030
	<i>Not Specified</i>	0.169 63.81%		NA			0.017 6.30%		0.079 29.88%			0.264
FY1993-99 Funding (\$Mil):		29,224.782	7,233.362	5,530.678	5,079.978	2,727.496	282.154	71.155	64.540	17.772	7.762	50,239.679
% of 1993-99 Funding:		58.17%	14.40%	11.01%	10.11%	5.43%	0.56%	0.14%	0.13%	0.04%	0.02%	100.00%

B. 1993

Rank	County Name	Individual Business	Public Educ. Institution	Private Educ. Institution	Non-Profit Non-Educ. Institution	Federal Govt.	State or Local Govt.	Other Govt.	Private Individual	Other	Not Specified	County Total
1	Los Angeles	1,891.682 55.81%	164.871 4.86%	1,181.023 34.84%	71.378 2.11%	76.919 2.27%	0.783 0.02%	0.372 0.01%	0.123 0.00%	0.453 0.01%	2.088 0.06%	3,389.693
2	Orange	615.965 92.03%	46.171 6.90%		1.066 0.16%		0.100 0.01%		0.000 0.00%		6.043 0.90%	669.345
3	Santa Clara	380.269 62.38%	9.686 1.59%	184.855 30.32%	12.775 2.10%	18.237 2.99%	1.384 0.23%		0.122 0.02%		2.289 0.38%	609.619
4	San Diego	281.370 47.36%	172.555 29.04%	1.651 0.28%	104.261 17.55%	32.780 5.52%	0.994 0.17%	0.100 0.02%		0.222 0.04%	0.217 0.04%	594.150
5	Alameda	19.300 4.28%	117.892 26.16%	2.354 0.52%	37.214 8.26%	271.438 60.24%	0.579 0.13%		0.026 0.01%	0.292 0.06%	1.484 0.33%	450.578
6	San Mateo	11.064 4.11%			44.275 16.44%	213.629 79.32%	0.335 0.12%		0.015 0.01%		0.000 0.00%	269.319
7	San Francisco	20.189 10.23%	153.599 77.83%	0.705 0.36%	8.021 4.06%	12.416 6.29%	1.091 0.55%				1.330 0.67%	197.352
8	Santa Barbara	70.618 61.13%	33.487 28.99%	1.710 1.48%	0.233 0.20%	9.467 8.20%						115.515
9	Yolo	3.172 3.99%	76.370 96.01%			0.000 0.00%	0.003 0.00%					79.545
10	Ventura	25.176 99.31%			0.008 0.03%	0.140 0.55%	0.004 0.01%				0.023 0.09%	25.351
11	Kern	21.112 90.14%	0.175 0.75%		0.189 0.81%	1.946 8.31%						23.422
12	Sacramento	14.478 75.60%	0.317 1.65%	0.025 0.13%	0.050 0.26%	0.056 0.29%	4.172 21.79%	0.015 0.08%		0.038 0.20%		19.151
13	Santa Cruz	0.133 0.80%	16.269 97.70%		0.250 1.50%							16.652
14	Riverside	3.420 23.34%	11.191 76.39%			NA	0.040 0.27%					14.651
15	San Bernardino	4.508 40.51%	0.093 0.84%	2.355 21.16%		4.132 37.14%	0.027 0.24%				0.013 0.11%	11.127
16	Contra Costa	3.387 42.30%	0.053 0.67%	0.011 0.13%	0.173 2.16%	4.088 51.06%	0.230 2.87%				0.063 0.79%	8.006
17	Marin	2.067 87.68%			0.190 8.04%	0.000 0.00%	0.067 2.83%				0.034 1.45%	2.357
18	San Joaquin	1.699 77.42%	0.041 1.88%	0.450 20.53%			0.003 0.13%				0.001 0.05%	2.194
19	Monterey	0.896 54.63%		0.013 0.76%	0.115 6.99%	0.075 4.58%	0.111 6.78%			0.302 18.42%	0.129 7.83%	1.641
20	Lake						0.738					0.738

Rank	County Name	Individual Business	Public Educ. Institution	Private Educ. Institution	Non-Profit Non-Educ. Institution	Federal Govt.	State or Local Govt.	Other Govt.	Private Individual	Other	Not Specified	County Total
								100.00%				
21	Sonoma	0.460 85.07%	0.061 11.23%			0.020 3.70%						0.540
22	San Luis Obispo		0.492 94.70%							0.028 5.30%		0.519
23	Solano	0.347 83.84%	0.035 8.43%		0.023 5.64%	0.009 2.09%						0.414
24	Humboldt	0.018 6.24%	0.177 61.40%		0.093 32.36%							0.288
25	Fresno		0.122 43.30%		0.160 56.70%							0.282
26	Tuolumne	0.122 70.85%		0.050 29.15%								0.172
27	Napa	0.169 100.00%										0.169
28	Stanislaus	0.159 100.00%										0.159
29	Kings	0.133 100.00%										0.133
30	Imperial					0.075 100.00%						0.075
31	Butte		0.063 100.00%									0.063
32	Inyo	0.026 42.55%		0.034 57.45%								0.060
33	Glenn			0.050 100.00%								0.050
34	Colusa			0.050 100.00%								0.050
35	Mendocino				0.050 100.00%							0.050
36	Tehama							0.026 100.00%				0.026
37	Placer	0.024 100.00%										0.024
38	Modoc					0.010 100.00%						0.010
39	Shasta					NA						NA
	<i>Not Specified</i>					NA						NA

Rank	County Name	Individual Business	Public Educ. Institution	Private Educ. Institution	Non-Profit Non-Educ. Institution	Federal Govt.	State or Local Govt.	Other Govt.	Private Individual	Other	Not Specified	County Total
	Total 1993 Funding (\$Mil):	3,371.961	803.721	1,375.187	280.442	645.507	10.751	0.547	0.301	1.269	13.805	6,503.490
	% of Total 1993 Funding:	51.85%	12.36%	21.15%	4.31%	9.93%	0.17%	0.01%	0.00%	0.02%	0.21%	100.00%

C. 1994

Rank	County Name	Individual Business	Public Educ. Institution	Private Educ. Institution	Non-Profit Non-Educ. Institution	Federal Govt.	State or Local Govt.	Other Govt.	Private Individual	Other	Not Specified	County Total
1	Los Angeles	2,200.928 58.48%	189.760 5.04%	1,209.973 32.15%	84.603 2.25%	66.299 1.76%	1.122 0.03%	7.984 0.21%	0.168 0.00%	0.453 0.01%	2.102 0.06%	3,763.392
2	Alameda	30.249 4.12%	138.238 18.83%	2.349 0.32%	46.578 6.34%	515.073 70.15%	0.673 0.09%		0.038 0.01%	0.059 0.01%	1.035 0.14%	734.292
3	Santa Clara	471.916 64.46%	10.482 1.43%	211.269 28.86%	14.933 2.04%	19.228 2.63%	1.667 0.23%		0.122 0.02%		2.533 0.35%	732.149
4	San Diego	343.301 48.81%	200.231 28.47%	1.641 0.23%	121.480 17.27%	34.705 4.93%	1.257 0.18%	0.200 0.03%	0.029 0.00%	0.278 0.04%	0.274 0.04%	703.396
5	Orange	612.525 90.60%	56.136 8.30%		1.413 0.21%		0.367 0.05%			NA	5.602 0.83%	676.043
6	San Mateo	12.654 4.41%		60.251 21.01%	213.557 74.46%	0.335 0.12%			0.015 0.01%			286.813
7	San Francisco	26.065 10.73%	187.983 77.39%	0.718 0.30%	10.175 4.19%	15.513 6.39%	1.243 0.51%				1.222 0.50%	242.919
8	Santa Barbara	86.899 63.91%	37.797 27.80%	1.793 1.32%	0.377 0.28%	9.106 6.70%						135.971
9	Yolo	0.606 0.69%	87.440 98.85%		0.411 0.46%	NA 0.00%	0.003					88.460
10	Ventura	37.116 99.92%			0.008 0.02%	NA					0.023 0.06%	37.147
11	Sacramento	16.426 66.41%	0.445 1.80%	0.127 0.51%	0.262 1.06%	0.056 0.23%	5.620 22.72%	1.755 7.09%	0.015 0.06%	0.030 0.12%		24.736
12	Kern	21.163 91.26%	0.162 0.70%		0.189 0.81%	1.677 7.23%						23.191
13	Santa Cruz	0.676 3.55%	18.082 95.13%		0.250 1.32%							19.008
14	Riverside	3.807 21.52%	13.753 77.75%		0.050 0.28%	NA 0.44%	0.078					17.688
15	Contra Costa	4.372 47.89%	0.100 1.09%	0.034 0.37%	0.185 2.03%	4.195 45.96%	0.230 2.52%				0.012 0.13%	9.128
16	San Bernardino	2.613 28.78%	0.185 2.04%	2.330 25.65%		3.941 43.40%					0.013 0.14%	9.081
17	Monterey	2.056 64.09%		0.026 0.81%	0.266 8.30%	0.080 2.51%	0.111 3.47%		0.536 16.71%	0.132 4.10%		3.207
18	San Joaquin	1.699 72.93%	0.041 1.77%	0.570 24.47%			0.003 0.12%				0.017 0.71%	2.329
19	Sonoma	1.286 80.49%	0.128 8.02%		0.164 10.24%		0.020 1.25%					1.598
20	San Luis Obispo		1.187 100.00%			NA						1.187
21	Marin	0.390 51.28%			0.304 39.95%	NA	0.067 8.77%					0.760
22	Lake						0.738 100.00%					0.738
23	Fresno	0.250 41.57%		0.200 33.21%		0.152 25.22%						0.602

Rank	County Name	Individual Business	Public Educ. Institution	Private Educ. Institution	Non-Profit Non-Educ. Institution	Federal Govt.	State or Local Govt.	Other Govt.	Private Individual	Other	Not Specified	County Total
24	Humboldt	0.018 3.03%	0.310 52.19%		0.263 44.30%		0.003 0.48%					0.593
25	Solano	0.182 71.01%	0.066 25.63%				0.009 3.37%					0.256
26	Placer	0.159 68.44%	0.073 31.56%									0.233
27	Butte	0.025 12.94%	0.168 87.06%									0.193
28	Kings	0.133 72.37%			0.051 27.63%							0.184
29	Stanislaus	0.159 100.00%										0.159
30	Tuolumne	0.122 100.00%										0.122
31	Napa	0.120 100.00%										0.120
32	Imperial		0.004 3.95%			0.022 22.06%	0.075 73.99%					0.101
33	Modoc			0.100 100.00%								0.100
34	Mendocino		0.009 11.06%		0.025 29.76%		0.050 59.17%					0.084
35	Inyo	0.026 42.55%		0.034 57.45%								0.060
36	Plumas			0.050 100.00%								0.050
37	Glenn			0.050 100.00%								0.050
38	Shasta				NA	0.050 100.00%						0.050
39	San Benito	0.037 100.00%										0.037
40	Tehama							0.026 100.00%				0.026
	<i>Not Specified</i>				NA							NA
Total 1994 Funding (\$Mil):		3,877.728	943.030	1,431.062	342.387	883.634	13.668	10.013	0.387	1.357	12.988	7,516.254
% of 1994 Funding:		51.59%	12.55%	19.04%	4.56%	11.76%	0.18%	0.13%	0.01%	0.02%	0.17%	100.00%

D. 1995

Rank	County Name	Individual Business	Public Educ. Institution	Private Educ. Institution	Non-Profit Non-Educ. Institution	Federal Govt.	State or Local Govt.	Other Govt.	Private Individual	Other	Not Specified	County Total
1	Los Angeles	2,547.908 80.55%	205.535 6.50%	229.222 7.25%	105.019 3.32%	62.733 1.98%	1.327 0.04%	7.862 0.25%	0.136 0.00%	0.553 0.02%	2.863 0.09%	3,163.157
2	Santa Clara	536.664 63.11%	10.543 1.24%	257.826 30.32%	22.749 2.68%	19.815 2.33%	2.135 0.25%	0.154 0.02%	0.154 0.02%	0.539 0.06%	0.539 0.06%	850.425
3	San Diego	461.888 54.55%	213.747 25.25%	1.663 0.20%	130.409 15.40%	35.405 4.18%	2.640 0.31%	0.100 0.01%	0.220 0.03%	0.278 0.03%	0.325 0.04%	846.676
4	Alameda	30.644 3.93%	144.649 18.56%	2.502 0.32%	52.382 6.72%	547.131 70.20%	1.081 0.14%	0.012 0.00%	0.009 0.00%	0.941 0.12%	0.941 0.12%	779.352
5	Orange	632.321 90.18%	60.285 8.60%		1.668 0.24%		0.367 0.05%	0.332 0.05%	0.000 0.00%	6.194 0.88%	6.194 0.88%	701.167
6	San Francisco	25.474 9.93%	196.776 76.74%	0.601 0.23%	11.220 4.38%	17.841 6.96%	3.312 1.29%	0.043 0.02%	0.004 0.00%	1.162 0.45%	1.162 0.45%	256.434
7	San Mateo	17.132 9.94%	0.015 0.01%	0.289 0.17%	59.803 34.69%	94.748 54.95%	0.375 0.22%			0.050 0.03%	0.050 0.03%	172.412
8	Santa Barbara	97.754 65.00%	42.020 27.94%	1.809 1.20%	0.348 0.23%	8.419 5.60%		0.028 0.02%		0.011 0.01%	0.011 0.01%	150.389
9	Yolo	0.504 0.54%	91.943 99.01%		0.411 0.44%	NA 0.00%	0.003					92.861
10	Ventura	35.031 99.76%				NA	0.004 0.01%	0.030 0.09%	0.027 0.08%	0.023 0.07%	0.023 0.07%	35.114
11	Sacramento	19.617 61.83%	0.670 2.11%	0.185 0.58%	0.357 1.12%	0.108 0.34%	9.005 28.38%	1.755 5.53%	0.030 0.10%		0.030 0.10%	31.726
12	Kern	21.038 87.10%	0.113 0.47%		0.189 0.78%	2.814 11.65%						24.154
13	Santa Cruz	0.756 3.31%	21.181 92.66%	0.696 3.04%	0.225 0.98%							22.858
14	Riverside	5.094 23.93%	16.046 75.36%		0.100 0.47%	NA				0.052 0.24%	0.052 0.24%	21.291
15	Contra Costa	5.154 46.87%	0.081 0.74%	0.042 0.38%	0.256 2.33%	5.097 46.35%	0.255 2.32%		0.109 0.99%	0.002 0.02%	0.002 0.02%	10.997
16	San Bernardino	2.543 24.21%	0.211 2.01%	3.205 30.52%	0.006 0.06%	4.524 43.08%				0.013 0.12%	0.013 0.12%	10.502
17	Sonoma	6.133 95.55%	0.122 1.90%		0.164 2.55%							6.419
18	Monterey	2.767 67.96%		0.026 0.64%	0.126 3.10%	0.053 1.30%	0.111 2.73%		0.747 18.35%	0.241 5.92%	0.241 5.92%	4.071
19	San Joaquin	1.699 69.32%		0.627 25.57%			0.003 0.11%			0.122 4.99%	0.122 4.99%	2.450
20	San Luis Obispo	0.028 2.33%	1.154 97.67%			NA						1.182
21	Fresno	0.149 14.69%	0.332 32.74%	0.400 39.46%		0.133 13.12%						1.014
22	Lake						0.738 100.00%					0.738
23	Marin	0.128 24.92%			0.318 62.05%	NA	0.067 13.03%					0.512

Rank	County Name	Individual Business	Public Educ. Institution	Private Educ. Institution	Non-Profit Non-Educ. Institution	Federal Govt.	State or Local Govt.	Other Govt.	Private Individual	Other	Not Specified	County Total
24	Humboldt		0.391 84.31%		0.070 15.09%		0.003 0.61%					0.464
25	Butte		0.025 5.72%	0.187 42.86%			0.218 49.88%	0.007 1.54%				0.437
26	Solano		0.226 77.34%	0.057 19.70%			0.009 2.96%					0.292
27	Napa		0.265 91.38%				0.025 8.62%					0.290
28	Placer		0.135 61.14%	0.073 33.21%			0.013 5.65%					0.221
29	Kings		0.133 72.37%			0.051 27.63%						0.184
30	Imperial						0.049 39.64%	0.075 60.36%				0.124
31	Plumas		0.050 50.00%		0.050 50.00%							0.100
32	Modoc				0.100 100.00%							0.100
33	Inyo		0.050 59.22%		0.034 40.78%							0.084
34	Mendocino		0.033 48.66%	0.009 13.91%		0.025 37.43%						0.067
35	Siskiyou						0.060 100.00%					0.060
36	Shasta					NA	0.050 100.00%					0.050
37	Glenn				0.050 100.00%							0.050
38	Trinity				0.042 100.00%							0.042
39	San Benito		0.037 100.00%									0.037
40	Tulare					NA						NA
	<i>Not Specified</i>					NA				0.017 100.00%		0.017
Total 1995 Funding (\$Mil):		4,451.378	1,006.143	499.128	386.087	798.873	21.849	10.231	0.526	1.753	12.554	7,188.521
% of 1995 Funding:		61.92%	14.00%	6.94%	5.37%	11.11%	0.30%	0.14%	0.01%	0.02%	0.17%	100.00%

E. 1996

Rank	County Name	Individual Business	Public Educ. Institution	Private Educ. Institution	Non-Profit Non-Educ. Institution	Federal Govt.	State or Local Govt.	Other Govt.	Private Individual	Other	Not Specified	County Total
1	Los Angeles	2,548.962 79.86%	202.639 6.35%	228.270 7.15%	103.427 3.24%	94.705 2.97%	1.510 0.05%	8.049 0.25%	0.230 0.01%	2.147 0.07%	1.967 0.06%	3,191.904
2	San Diego	551.017 58.56%	209.523 22.27%	2.146 0.23%	136.652 14.52%	38.414 4.08%	2.450 0.26%		0.254 0.03%	0.278 0.03%	0.153 0.02%	940.887
3	Santa Clara	535.941 62.36%	10.548 1.23%	266.280 30.99%	20.245 2.36%	20.379 2.37%	3.157 0.37%		0.842 0.10%		1.991 0.23%	859.383
4	Orange	626.107 90.57%	57.706 8.35%		1.567 0.23%		0.339 0.05%	0.332 0.05%	0.025 0.00%		5.204 0.75%	691.281
5	Alameda	28.980 5.11%	145.512 25.64%	2.487 0.44%	50.085 8.82%	337.068 59.39%	1.938 0.34%		0.012 0.00%	0.057 0.01%	1.416 0.25%	567.555
6	San Francisco	25.903 9.76%	200.050 75.38%	4.651 1.75%	11.854 4.47%	18.691 7.04%	4.030 1.52%	0.088 0.03%	0.020 0.01%		0.111 0.04%	265.398
7	San Mateo	14.985 9.25%	0.060 0.04%	0.289 0.18%	51.523 31.79%	94.690 58.43%	0.464 0.29%				0.050 0.03%	162.060
8	Santa Barbara	103.374 68.49%	40.840 27.06%	2.062 1.37%	0.357 0.24%	4.282 2.84%		0.028 0.02%				150.943
9	Yolo	0.333 0.36%	90.641 98.94%		0.623 0.68%	NA	0.015 0.02%					91.612
10	Sacramento	18.801 52.84%	0.650 1.83%	0.234 0.66%	0.303 0.85%	0.423 1.19%	12.793 35.96%	2.074 5.83%	0.027 0.08%	0.275 0.77%		35.580
11	Ventura	26.627 99.76%			0.005 0.02%	NA	0.004 0.01%	0.030 0.11%		0.027 0.10%		26.692
12	Santa Cruz	0.573 2.45%	21.302 90.92%	1.144 4.88%	0.410 1.75%							23.429
13	Riverside	5.650 28.50%	14.046 70.86%		0.050 0.25%	NA			0.021 0.10%		0.057 0.29%	19.824
14	Contra Costa	9.919 62.16%	0.041 0.26%	0.035 0.22%	0.352 2.21%	5.420 33.96%				0.189 1.18%	0.002 0.01%	15.957
15	San Bernardino	2.909 22.39%	0.289 2.22%	5.343 41.12%	0.006 0.05%	4.447 34.22%						12.993
16	Sonoma	6.304 95.37%	0.142 2.15%		0.164 2.48%							6.610
17	Kern	0.613 15.45%	0.126 3.18%		0.306 7.72%	2.924 73.65%						3.971
18	Monterey	2.402 67.27%		0.026 0.73%	0.090 2.52%	0.152 4.26%	0.111 3.12%			0.407 11.41%	0.382 10.70%	3.570
19	Lake	0.035 1.78%				1.934 98.22%						1.969
20	San Luis Obispo	0.151	1.064			NA						1.215

Rank	County Name	Individual Business	Public Educ. Institution	Private Educ. Institution	Non-Profit Non-Educ. Institution	Federal Govt.	State or Local Govt.	Other Govt.	Private Individual	Other	Not Specified	County Total
		12.44%	87.56%									
21	Fresno	0.149 12.90%	0.426 36.91%	0.200 17.33%	0.014 1.21%	0.165 14.32%	0.200 17.33%					1.154
22	Humboldt			0.973 93.16%		0.069 6.57%		0.003 0.27%				1.044
23	Marin	0.388 49.64%			0.299 38.29%	NA			0.094 12.07%			0.781
24	San Joaquin				0.465 85.65%			0.003 0.52%		0.075 13.83%		0.543
25	Inyo	0.298 100.00%										0.298
26	Placer	0.135 61.14%	0.073 33.21%			0.013 5.65%						0.221
27	Napa	0.157 86.27%				0.025 13.73%						0.182
28	Kings	0.133 83.45%			0.026 16.55%							0.160
29	Solano	0.108 75.28%	0.027 18.67%			0.009 6.05%						0.143
30	Butte	0.050 36.56%	0.080 58.52%				0.007 4.92%					0.137
31	Imperial					0.049 42.73%	0.066 57.27%					0.115
32	Shasta	0.053 51.68%			NA	0.050 48.32%						0.103
33	Modoc			0.100 100.00%								0.100
34	Plumas	0.050 50.00%			0.050 50.00%							0.100
35	Mendocino	0.033 37.44%	0.009 10.70%		0.045 51.86%							0.087
36	San Benito	0.082 100.00%										0.082
37	Siskiyou				0.068 100.00%							0.068
38	Trinity			0.059 100.00%								0.059
39	Stanislaus	0.049 88.99%	0.006 11.01%									0.055
40	Calaveras			0.050 100.00%								0.050

Rank	County Name	Individual Business	Public Educ. Institution	Private Educ. Institution	Non-Profit Non-Educ. Institution	Federal Govt.	State or Local Govt.	Other Govt.	Private Individual	Other	Not Specified	County Total
41	Yuba	0.050 <i>100.00%</i>										0.050
42	Tulare					NA						NA
	<i>Not Specified</i>					NA						NA
Total 1996 Funding (\$Mil):		4,511.322	996.772	513.632	378.705	621.786	29.163	10.674	1.431	3.474	11.408	7,078.366
% of 1996 Funding:		63.73%	14.08%	7.26%	5.35%	8.78%	0.41%	0.15%	0.02%	0.05%	0.16%	100.00%

F. 1997

Rank	County Name	Individual Business	Public Educ. Institution	Private Educ. Institution	Non-Profit Non-Educ. Institution	Federal Govt.	State or Local Govt.	Other Govt.	Private Individual	Other	Not Specified	County Totals
1	Los Angeles	2,475.014 78.20%	200.647 6.34%	230.214 7.27%	103.305 3.26%	141.927 4.48%	2.514 0.08%	7.797 0.25%	0.268 0.01%	1.482 0.05%	1.867 0.06%	3,165.034
2	San Diego	525.889 56.06%	218.389 23.28%	3.491 0.37%	145.313 15.49%	41.954 4.47%	2.254 0.24%		0.254 0.03%	0.411 0.04%	0.169 0.02%	938.126
3	Santa Clara	524.346 63.50%	10.553 1.28%	240.803 29.16%	19.843 2.40%	25.378 3.07%	3.880 0.47%		0.812 0.10%		0.144 0.02%	825.760
4	Orange	618.668 90.34%	60.105 8.78%		0.852 0.12%		0.093 0.01%	0.332 0.05%	0.025 0.00%	4.716 0.69%		684.791
5	Alameda	34.271 6.30%	142.130 26.14%	2.232 0.41%	50.868 9.36%	311.113 57.22%	2.293 0.42%		0.053 0.01%	0.107 0.02%	0.620 0.11%	543.688
6	San Francisco	24.818 8.79%	206.742 73.25%	4.560 1.62%	12.576 4.46%	28.711 10.17%	4.562 1.62%	0.089 0.03%	0.084 0.03%		0.102 0.04%	282.243
7	San Mateo	19.205 11.24%	0.131 0.08%	0.289 0.17%	55.972 32.76%	95.158 55.70%	0.089 0.05%					170.842
8	Santa Barbara	103.396 68.01%	40.862 26.88%	2.795 1.84%	0.730 0.48%	4.257 2.80%						152.040
9	Yolo	0.476 0.51%	92.006 99.08%	0.020 0.02%	0.283 0.30%	NA	0.051 0.06%		0.027 0.03%			92.863
10	Sacramento	19.795 48.83%	3.288 8.11%	0.147 0.36%	0.190 0.47%	1.119 2.76%	13.625 33.61%	2.074 5.12%	0.027 0.07%	0.275 0.68%		40.542
11	Ventura	30.985 97.82%			0.006 0.02%	0.680 2.15%	0.004 0.01%					31.675
12	Santa Cruz	0.637 2.51%	23.155 91.29%	1.144 4.51%	0.429 1.69%							25.366
13	Riverside	8.230 35.97%	14.357 62.74%	0.197 0.86%		NA			0.049 0.21%	0.050 0.22%		22.883
14	Contra Costa	11.410 63.96%	0.035 0.20%	0.016 0.09%	0.432 2.42%	5.866 32.88%				0.080 0.45%		17.839
15	San Bernardino	3.102 20.57%	0.234 1.55%	6.851 45.43%		4.893 32.45%						15.081
16	Sonoma	6.578 93.04%	0.138 1.95%		0.197 2.79%		0.158 2.23%					7.071
17	Monterey	2.770 52.69%	0.489 9.31%	0.026 0.50%	0.430 8.19%	0.460 8.75%			0.251 4.78%	0.829 15.78%		5.256
18	Kern	0.414 14.09%	0.097 3.32%		0.258 8.79%	2.169 73.81%						2.939
19	Lake	0.360 15.69%					1.934 84.31%					2.294
20	San Luis Obispo	0.328	1.183			NA		0.020				1.531

Rank	County Name	Individual Business	Public Educ. Institution	Private Educ. Institution	Non-Profit Non-Educ. Institution	Federal Govt.	State or Local Govt.	Other Govt.	Private Individual	Other	Not Specified	County Totals
		21.44%	77.26%					1.31%				
21	Fresno	0.149 10.46%	0.391 27.48%		0.252 17.67%	0.176 12.35%	0.450 31.61%		NA	0.006 0.42%		1.423
22	Humboldt	0.009 0.74%	1.066 91.97%		0.044 3.80%		0.040 3.48%					1.159
23	Marin	0.704 67.12%			0.213 20.34%	NA			0.131 12.54%			1.049
24	San Joaquin	0.169 22.45%		0.232 30.85%	0.320 42.50%		0.003 0.37%			0.029 3.83%		0.752
25	Inyo	0.248 83.24%			0.050 16.76%							0.298
26	Placer	0.185 71.58%	0.073 28.42%									0.258
27	Napa	0.226 100.00%										0.226
28	Solano	0.065 33.71%	0.027 13.83%		0.050 25.93%		0.014 7.07%		0.038 19.45%			0.193
29	Kings	0.133 76.37%			0.041 23.63%							0.175
30	Butte	0.050 34.55%	0.088 60.80%				0.007 4.65%					0.145
31	San Benito	0.082 100.00%										0.082
32	Stanislaus	0.064 91.37%	0.006 8.63%									0.070
33	Imperial				0.060 100.00%							0.060
34	Shasta	0.053 100.00%				NA						0.053
35	Trinity				0.052 100.00%							0.052
36	Yuba	0.050 100.00%										0.050
37	Siskiyou	0.031 80.52%				0.008 19.48%						0.039
38	Mendocino				0.020 100.00%							0.020
39	Tulare					NA						NA
	Not Specified		0.084 51.63%			NA			0.079 48.37%			0.163

Rank	County Name	Individual Business	Public Educ. Institution	Private Educ. Institution	Non-Profit Non-Educ. Institution	Federal Govt.	State or Local Govt.	Other Govt.	Private Individual	Other	Not Specified	County Totals
	Total 1997 Funding (\$Mil):	4,412.910	1,016.275	493.017	392.685	663.903	32.032	10.319	1.636	2.823	8.527	7,034.127
	% of 1997 Funding:	62.74%	14.45%	7.01%	5.58%	9.44%	0.46%	0.15%	0.02%	0.04%	0.12%	100.00%

G. 1998

Rank	County Name	Individual Business	Public Educ. Institution	Private Educ. Institution	Non-Profit Non-Educ. Institution	Federal Govt.	State or Local Govt.	Other Govt.	Private Individual	Other	Not Specified	County Total
1	Los Angeles	2,350.295 76.36%	204.756 6.65%	243.182 7.90%	79.690 2.59%	186.839 6.07%	2.027 0.07%	7.785 0.25%	0.290 0.01%	1.229 0.04%	1.732 0.06%	3,077.824
2	San Diego	564.716 56.49%	220.611 22.07%	3.480 0.35%	153.438 15.35%	49.562 4.96%	7.109 0.71%	0.246 0.02%	0.312 0.03%	0.169 0.02%	999.644	
3	Santa Clara	514.147 62.25%	9.426 1.14%	255.143 30.89%	18.637 2.26%	25.427 3.08%	2.359 0.29%	0.795 0.10%	0.020 0.00%	0.020 0.00%	825.955	
4	Orange	592.845 90.14%	60.345 9.18%	0.223 0.03%	1.308 0.20%	0.049 0.01%	0.003 0.00%	0.025 0.00%	2.891 0.44%	657.689		
5	Alameda	33.291 5.67%	143.493 24.43%	8.787 1.50%	54.810 9.33%	345.107 58.75%	1.637 0.28%	0.015 0.00%	0.085 0.01%	0.134 0.02%	587.409	
6	San Francisco	30.571 10.45%	202.648 69.30%	4.949 1.69%	12.938 4.42%	34.581 11.83%	5.835 2.00%	0.474 0.16%	0.090 0.03%	0.025 0.01%	292.433	
7	San Mateo	20.656 11.81%	0.116 0.07%	0.507 0.29%	58.184 33.27%	95.426 54.56%					174.889	
8	Santa Barbara	99.701 67.74%	38.864 26.40%	2.794 1.90%	0.665 0.45%	5.149 3.50%	0.014 0.01%				147.187	
9	Yolo	0.282 0.28%	100.669 99.36%	0.020 0.02%	0.313 0.31%	NA	0.003 0.00%		0.027 0.03%		101.313	
10	Sacramento	18.510 50.42%	2.791 7.60%		0.470 1.28%	0.988 2.69%	13.373 36.43%	0.319 0.87%	0.027 0.07%	0.231 0.63%	36.710	
11	Santa Cruz	1.491 5.24%	24.876 87.36%	1.204 4.23%	0.670 2.35%	0.162 0.57%	0.026 0.09%	0.046 0.16%			28.474	
12	Ventura	26.909 97.52%		0.001 0.00%	0.680 2.47%	0.004 0.01%					27.594	
13	Riverside	6.607 29.92%	13.534 61.30%	0.197 0.89%		NA	1.625 7.36%	0.049 0.22%		0.067 0.30%	22.079	
14	San Bernardino	7.312 35.50%	0.206 1.00%	7.344 35.65%		5.295 25.71%	0.441 2.14%				20.598	
15	Contra Costa	10.983 55.45%	0.009 0.04%	0.048 0.24%	0.411 2.08%	7.978 40.28%	0.300 1.51%		0.080 0.40%		19.808	
16	Sonoma	5.750 91.66%	0.169 2.69%		0.197 3.14%	0.158 2.51%					6.274	
17	Monterey	2.509 48.58%	0.612 11.85%		0.482 9.33%	0.626 12.12%			0.209 4.04%	0.727 14.07%	5.164	
18	Kern	0.539 18.60%	0.093 3.20%		0.159 5.49%	2.107 72.71%					2.898	
19	Fresno	0.741 31.53%	0.506 21.50%	0.375 15.94%	0.248 10.53%	0.226 9.62%	0.250 10.63%	NA	0.006 0.26%		2.351	
20	Lake	0.325					1.273				1.598	

Rank	County Name	Individual Business	Public Educ. Institution	Private Educ. Institution	Non-Profit Non-Educ. Institution	Federal Govt.	State or Local Govt.	Other Govt.	Private Individual	Other	Not Specified	County Total
		20.34%				79.66%						
21	Marin	0.901 65.09%		0.220 15.90%	NA	0.131 9.50%		0.131 9.50%				1.383
22	San Luis Obispo	0.646 47.08%	0.700 51.02%		0.006 0.44%	NA		0.020 1.46%				1.371
23	Butte	1.220 96.65%	0.028 2.21%			0.014 1.14%						1.262
24	Humboldt	0.009 0.75%	1.016 88.53%	0.044 3.86%	0.043 3.71%		0.036 3.15%					1.147
25	San Joaquin	0.169 23.88%		0.200 28.24%	0.320 45.22%		0.018 2.52%			0.001 0.14%		0.707
26	Napa	0.350 100.00%										0.350
27	Inyo	0.248 78.59%		0.068 21.41%								0.316
28	Kings	0.133 74.87%			0.015 8.32%		0.030 16.81%					0.178
29	Solano	0.065 39.12%		0.050 30.10%		0.014 8.21%		0.038 22.57%				0.166
30	Placer	0.050 40.36%	0.073 59.64%									0.123
31	Trinity			0.040 35.84%		0.073 64.16%						0.113
32	El Dorado		0.031 34.07%			0.060 65.93%						0.091
33	Imperial		0.035 86.95%		0.005 13.05%							0.040
34	Siskiyou		0.031 80.52%		0.008 19.48%							0.039
35	Mendocino			0.030 100.00%								0.030
36	Del Norte			0.025 100.00%								0.025
37	Shasta			0.025 100.00%	NA							0.025
38	Stanislaus	0.015 71.43%	0.006 28.57%									0.021
39	Tulare				NA			0.008 100.00%				0.008
	Not Specified		0.084 100.00%		NA							0.084

Rank	County Name	Individual Business	Public Educ. Institution	Private Educ. Institution	Non-Profit Non-Educ. Institution	Federal Govt.	State or Local Govt.	Other Govt.	Private Individual	Other	Not Specified	County Total
	Total 1998 Funding (\$Mil):	4,292.048	1,025.663	528.496	383.447	760.006	34.910	10.737	1.672	2.411	5.982	7,045.371
	% of 1998 Funding:	60.92%	14.56%	7.50%	5.44%	10.79%	0.50%	0.15%	0.02%	0.03%	0.08%	100.00%

H. 1999

Rank	County Name	Individual Business	Public Educ. Institution	Private Educ. Institution	Non-Profit Non-Educ. Institution	Federal Govt.	State or Local Govt.	Other Govt.	Private Individual	Other	Not Specified	County Total
1	Los Angeles	2,534.852 75.14%	303.166 8.99%	304.301 9.02%	113.020 3.35%	102.765 3.05%	2.631 0.08%	7.822 0.23%	0.293 0.01%	3.457 0.10%	1.208 0.04%	3,373.516
2	San Diego	535.644 42.29%	311.253 24.57%	3.565 0.28%	251.925 19.89%	50.250 3.97%	113.196 8.94%		0.129 0.01%	0.403 0.03%	0.200 0.02%	1,266.566
3	Santa Clara	404.372 49.07%	11.229 1.36%	355.168 43.10%	21.575 2.62%	28.778 3.49%	2.068 0.25%	0.050 0.01%	0.833 0.10%	0.050 0.01%	0.020 0.00%	824.144
4	Alameda	31.933 4.69%	181.730 26.67%	9.250 1.36%	97.799 14.35%	359.137 52.71%	0.986 0.14%	0.015 0.00%	0.306 0.04%	0.121 0.02%	0.052 0.01%	681.330
5	Orange	564.659 86.14%	85.198 13.00%	0.267 0.04%	1.924 0.29%		0.340 0.05%	0.062 0.01%	0.033 0.01%		3.031 0.46%	655.515
6	San Francisco	46.111 10.29%	327.897 73.18%	4.968 1.11%	15.793 3.52%	46.175 10.30%	6.260 1.40%	0.430 0.10%	0.105 0.02%	0.025 0.01%	0.334 0.07%	448.098
7	San Mateo	24.678 13.80%	0.116 0.06%	0.247 0.14%	56.822 31.78%	96.912 54.21%						178.775
8	Santa Barbara	86.532 64.36%	42.514 31.62%	2.843 2.11%	0.191 0.14%	2.350 1.75%	0.014 0.01%					134.443
9	Yolo	0.414 0.32%	128.962 99.43%	0.020 0.02%	0.258 0.20%	NA	0.024 0.02%		0.027 0.02%			129.705
10	Sacramento	12.507 40.49%	1.925 6.23%		0.959 3.10%	0.944 3.06%	13.002 42.09%	1.243 4.02%		0.310 1.00%		30.890
11	Santa Cruz	1.538 5.07%	27.033 89.03%	0.508 1.67%	1.019 3.36%	NA	0.162 0.53%	0.026 0.09%	0.033 0.11%	0.046 0.15%		30.365
12	Riverside	6.485 25.35%	17.113 66.89%	0.197 0.77%		NA		1.625 6.35%	0.049 0.19%	0.015 0.06%	0.100 0.39%	25.584
13	Ventura	23.818 97.49%			0.608 2.49%	0.005 0.02%						24.432
14	San Bernardino	6.928 30.48%	0.135 0.59%	7.895 34.73%	0.750 3.30%	6.581 28.96%		0.441 1.94%				22.729
15	Contra Costa	10.638 55.51%	0.009 0.04%	0.048 0.25%	0.357 1.86%	7.731 40.35%	0.300 1.56%		0.080 0.42%			19.163
16	Sonoma	6.504 91.21%	0.346 4.86%		0.280 3.93%							7.131
17	Monterey	2.411 49.80%	0.637 13.16%		0.361 7.45%	0.317 6.55%	0.133 2.75%		0.037 0.76%	0.945 19.52%		4.841
18	Kern	0.969 20.55%	0.075 1.59%		0.159 3.37%	3.511 74.48%						4.715
19	Marin	2.384 82.20%		0.00%	0.209 7.22%	0.000 0.00%	0.175 6.05%		0.131 4.53%			2.900
20	San Luis Obispo	0.989	0.842		0.006	NA	0.020					1.857

Rank	County Name	Individual Business	Public Educ. Institution	Private Educ. Institution	Non-Profit Non-Educ. Institution	Federal Govt.	State or Local Govt.	Other Govt.	Private Individual	Other	Not Specified	County Total
		53.25%	45.35%		0.32%			1.08%				
21	Fresno	0.769 43.27%	0.433 24.39%	0.375 21.11%	0.006 0.34%	0.193 10.89%			NA			1.776
22	Humboldt		0.932 85.57%	0.044 4.06%	0.042 3.87%		0.071 6.51%					1.090
23	San Joaquin	0.169 25.97%		0.462 71.08%			0.019 2.95%					0.650
24	Tulare	0.476 98.15%				NA			0.009 1.85%			0.485
25	Butte	0.282 66.07%	0.130 30.55%				0.014 3.38%					0.427
26	Lake	0.325 80.73%					0.078 19.27%					0.403
27	Modoc			0.091 26.22%			0.255 73.78%					0.346
28	Napa	0.331 100.00%										0.331
29	Placer	0.250 77.28%	0.073 22.72%									0.323
30	Shasta	0.105 64.29%		0.058 35.71%								0.163
31	Stanislaus	0.143 100.00%										0.143
32	El Dorado	0.031 22.22%				0.109 77.78%						0.140
33	Solano	0.107 93.34%				0.008 6.66%						0.115
34	Imperial				NA	0.114 100.00%						0.114
35	Trinity				0.019 20.99%		0.073 79.01%					0.092
36	Inyo				0.054 100.00%							0.054
37	Tuolumne	0.050 100.00%										0.050
38	Kings				0.015 33.10%		0.030 66.90%					0.045
39	Mariposa	0.032 100.00%										0.032
40	Lassen			0.030 100.00%								0.030

Rank	County Name	Individual Business	Public Educ. Institution	Private Educ. Institution	Non-Profit Non-Educ. Institution	Federal Govt.	State or Local Govt.	Other Govt.	Private Individual	Other	Not Specified	County Total
	Del Norte				0.025 100.00%							0.025
42	Mendocino				0.010 100.00%							0.010
43	Glenn		0.010 100.00%									0.010
	<i>Not Specified</i>			NA		NA						NA
Total 1999 Funding (\$Mil):		4,307.436	1,441.759	690.158	563.743	706.268	139.782	12.019	1.809	4.685	5.890	7,873.550
% of 1999 Funding:		54.71%	18.31%	8.77%	7.16%	8.97%	1.78%	0.15%	0.02%	0.06%	0.07%	100.00%

VI. California's Unclassified R&D Funding, by Performer Type

A. 1993-99 Aggregated for All Agencies and Counties

Performer Type	1993	1994	1995	1996	1997	1998	1999	Performer Type Total
Individual Business	3,371.961 51.85%	3,877.728 51.59%	4,451.378 61.92%	4,511.322 63.73%	4,412.910 62.74%	4,292.048 60.92%	4,307.436 54.71%	29,224.782 58.17%
Public Educ. Institution	803.721 12.36%	943.030 12.55%	1,006.143 14.00%	996.772 14.08%	1,016.275 14.45%	1,025.663 14.56%	1,441.759 18.31%	7,233.362 14.40%
Private Educ. Institution	1,375.187 21.15%	1,431.062 19.04%	499.128 6.94%	513.632 7.26%	493.017 7.01%	528.496 7.50%	690.158 8.77%	5,530.678 11.01%
Federal Govt.	645.507 9.93%	883.634 11.76%	798.873 11.11%	621.786 8.78%	663.903 9.44%	760.006 10.79%	706.268 8.97%	5,079.978 10.11%
Non-Profit Non-Educ. Institution	280.442 4.31%	342.387 4.56%	386.087 5.37%	378.705 5.35%	392.685 5.58%	383.447 5.44%	563.743 7.16%	2,727.496 5.43%
State or Local Govt.	10.751 0.17%	13.668 0.18%	21.849 0.30%	29.163 0.41%	32.032 0.46%	34.910 0.50%	139.782 1.78%	282.154 0.56%
Not Specified	13.805 0.21%	12.988 0.17%	12.554 0.17%	11.408 0.16%	8.527 0.12%	5.982 0.08%	5.890 0.07%	71.155 0.14%
Other Govt.	0.547 0.01%	10.013 0.13%	10.231 0.14%	10.674 0.15%	10.319 0.15%	10.737 0.15%	12.019 0.15%	64.540 0.13%
Other	1.269 0.02%	1.357 0.02%	1.753 0.02%	3.474 0.05%	2.823 0.04%	2.411 0.03%	4.685 0.06%	17.772 0.04%
Private Individual	0.301 0.00%	0.387 0.01%	0.526 0.01%	1.431 0.02%	1.636 0.02%	1.672 0.02%	1.809 0.02%	7.762 0.02%
Fiscal Year Total:	6,503.490	7,516.254	7,188.521	7,078.366	7,034.127	7,045.371	7,873.550	50,239.679
% of Fiscal Year Total:	100.00%							

B. Los Angeles County (Rank No. 1)

Performer Type	1993	1994	1995	1996	1997	1998	1999	Performer Type Total
Individual Business	1,891.682 55.81%	2,200.928 58.48%	2,547.908 80.55%	2,548.962 79.86%	2,475.014 78.20%	2,350.295 76.36%	2,534.852 75.14%	16,549.641 71.57%
Private Educ. Institution	1,181.023 34.84%	1,209.973 32.15%	229.222 7.25%	228.270 7.15%	230.214 7.27%	243.182 7.90%	304.301 9.02%	3,626.185 15.68%
Public Educ. Institution	164.871 4.86%	189.760 5.04%	205.535 6.50%	202.639 6.35%	200.647 6.34%	204.756 6.65%	303.166 8.99%	1,471.374 6.36%
Federal Govt.	76.919 2.27%	66.299 1.76%	62.733 1.98%	94.705 2.97%	141.927 4.48%	186.839 6.07%	102.765 3.05%	732.187 3.17%
Non-Profit Non-Educ. Institution	71.378 2.11%	84.603 2.25%	105.019 3.32%	103.427 3.24%	103.305 3.26%	79.690 2.59%	113.020 3.35%	660.442 2.86%
Other Govt.	0.372 0.01%	7.984 0.21%	7.862 0.25%	8.049 0.25%	7.797 0.25%	7.785 0.25%	7.822 0.23%	47.671 0.21%
Not Specified	2.088 0.06%	2.102 0.06%	2.863 0.09%	1.967 0.06%	1.867 0.06%	1.732 0.06%	1.208 0.04%	13.826 0.06%
State or Local Govt.	0.783 0.02%	1.122 0.03%	1.327 0.04%	1.510 0.05%	2.514 0.08%	2.027 0.07%	2.631 0.08%	11.913 0.05%
Other	0.453 0.01%	0.453 0.01%	0.553 0.02%	2.147 0.07%	1.482 0.05%	1.229 0.04%	3.457 0.10%	9.774 0.04%
Private Individual	0.123 0.00%	0.168 0.00%	0.136 0.00%	0.230 0.01%	0.268 0.01%	0.290 0.01%	0.293 0.01%	1.507 0.01%
Fiscal Year Total:	3,389.693	3,763.392	3,163.157	3,191.904	3,165.034	3,077.824	3,373.516	23,124.521
% of Fiscal Year Total:	100.00%							

C. San Diego County (Rank No. 2)

Performer Type	1993	1994	1995	1996	1997	1998	1999	Performer Type Total
Individual Business	281.370 47.36%	343.301 48.81%	461.888 54.55%	551.017 58.56%	525.889 56.06%	564.716 56.49%	535.644 42.29%	3,263.825 51.89%
Public Educ. Institution	172.555 29.04%	200.231 28.47%	213.747 25.25%	209.523 22.27%	218.389 23.28%	220.611 22.07%	311.253 24.57%	1,546.309 24.59%
Non-Profit Non-Educ. Institution	104.261 17.55%	121.480 17.27%	130.409 15.40%	136.652 14.52%	145.313 15.49%	153.438 15.35%	251.925 19.89%	1,043.480 16.59%
Federal Govt.	32.780 5.52%	34.705 4.93%	35.405 4.18%	38.414 4.08%	41.954 4.47%	49.562 4.96%	50.250 3.97%	283.069 4.50%
State or Local Govt.	0.994 0.17%	1.257 0.18%	2.640 0.31%	2.450 0.26%	2.254 0.24%	7.109 0.71%	113.196 8.94%	129.902 2.07%
Private Educ. Institution	1.651 0.28%	1.641 0.23%	1.663 0.20%	2.146 0.23%	3.491 0.37%	3.480 0.35%	3.565 0.28%	17.637 0.28%
Other	0.222 0.04%	0.278 0.04%	0.278 0.03%	0.278 0.03%	0.411 0.04%	0.312 0.03%	0.403 0.03%	2.184 0.03%
Not Specified	0.217 0.04%	0.274 0.04%	0.325 0.04%	0.153 0.02%	0.169 0.02%	0.169 0.02%	0.200 0.02%	1.507 0.02%
Private Individual		0.029 0.00%	0.220 0.03%	0.254 0.03%	0.254 0.03%	0.246 0.02%	0.129 0.01%	1.132 0.02%
Other Govt.	0.100 0.02%	0.200 0.03%	0.100 0.01%					0.400 0.01%
Fiscal Year Total:	594.150	703.396	846.676	940.887	938.126	999.644	1,266.566	6,289.445
<i>% of Fiscal Year Total:</i>	<i>100.00%</i>							

D. Santa Clara County (Rank No. 3)

Performer Type	1993	1994	1995	1996	1997	1998	1999	Performer Type Total
Individual Business	380.269 62.38%	471.916 64.46%	536.664 63.11%	535.941 62.36%	524.346 63.50%	514.147 62.25%	404.372 49.07%	3,367.655 60.93%
Private Educ. Institution	184.855 30.32%	211.269 28.86%	257.826 30.32%	266.280 30.99%	240.803 29.16%	255.143 30.89%	355.168 43.10%	1,771.344 32.05%
Federal Govt.	18.237 2.99%	19.228 2.63%	19.815 2.33%	20.379 2.37%	25.378 3.07%	25.427 3.08%	28.778 3.49%	157.242 2.84%
Non-Profit Non-Educ. Institution	12.775 2.10%	14.933 2.04%	22.749 2.68%	20.245 2.36%	19.843 2.40%	18.637 2.26%	21.575 2.62%	130.756 2.37%
Public Educ. Institution	9.686 1.59%	10.482 1.43%	10.543 1.24%	10.548 1.23%	10.553 1.28%	9.426 1.14%	11.229 1.36%	72.467 1.31%
State or Local Govt.	1.384 0.23%	1.667 0.23%	2.135 0.25%	3.157 0.37%	3.880 0.47%	2.359 0.29%	2.068 0.25%	16.650 0.30%
Not Specified	2.289 0.38%	2.533 0.35%	0.539 0.06%	1.991 0.23%	0.144 0.02%	0.020 0.00%	0.020 0.00%	7.538 0.14%
Private Individual	0.122 0.02%	0.122 0.02%	0.154 0.02%	0.842 0.10%	0.812 0.10%	0.795 0.10%	0.833 0.10%	3.682 0.07%
Other							0.050 0.01%	0.050 0.00%
Other Govt.							0.050 0.01%	0.050 0.00%
Fiscal Year Total:	609.619	732.149	850.425	859.383	825.760	825.955	824.144	5,527.435
<i>% of Fiscal Year Total:</i>	<i>100.00%</i>							

E. Orange County (Rank No. 4)

Performer Type	1993	1994	1995	1996	1997	1998	1999	Performer Type Total
Individual Business	615.965 92.03%	612.525 90.60%	632.321 90.18%	626.107 90.57%	618.668 90.34%	592.845 90.14%	564.659 86.14%	4,263.091 90.02%
Public Educ. Institution	46.171 6.90%	56.136 8.30%	60.285 8.60%	57.706 8.35%	60.105 8.78%	60.345 9.18%	85.198 13.00%	425.945 8.99%
Not Specified	6.043 0.90%	5.602 0.83%	6.194 0.88%	5.204 0.75%	4.716 0.69%	2.891 0.44%	3.031 0.46%	33.682 0.71%
Non-Profit Non-Educ. Institution	1.066 0.16%	1.413 0.21%	1.668 0.24%	1.567 0.23%	0.852 0.12%	1.308 0.20%	1.924 0.29%	9.798 0.21%
State or Local Govt.	0.100 0.01%	0.367 0.05%	0.367 0.05%	0.339 0.05%	0.093 0.01%	0.049 0.01%	0.340 0.05%	1.654 0.03%
Other Govt.				0.332 0.05%	0.332 0.05%	0.332 0.05%	0.003 0.00%	0.062 0.01%
Private Educ. Institution						0.223 0.03%	0.267 0.04%	0.490 0.01%
Private Individual	NA	NA	NA	0.025 0.00%	0.025 0.00%	0.025 0.00%	0.033 0.01%	0.109 0.00%
Fiscal Year Total:	669.345	676.043	701.167	691.281	684.791	657.689	655.515	4,735.830
% of Fiscal Year Total:	100.00%							

F. Alameda County (Rank No. 5)

Performer Type	1993	1994	1995	1996	1997	1998	1999	Performer Type Total
Federal Government	271.438 60.24%	515.073 70.15%	547.131 70.20%	337.068 59.39%	311.113 57.22%	345.107 58.75%	359.137 52.71%	2,686.067 61.83%
Public Educ. Institution	117.892 26.16%	138.238 18.83%	144.649 18.56%	145.512 25.64%	142.130 26.14%	143.493 24.43%	181.730 26.67%	1,013.643 23.33%
Non-Profit Non-Educ. Institution	37.214 8.26%	46.578 6.34%	52.382 6.72%	50.085 8.82%	50.868 9.36%	54.810 9.33%	97.799 14.35%	389.736 8.97%
Individual Business	19.300 4.28%	30.249 4.12%	30.644 3.93%	28.980 5.11%	34.271 6.30%	33.291 5.67%	31.933 4.69%	208.668 4.80%
Private Educ. Institution	2.354 0.52%	2.349 0.32%	2.502 0.32%	2.487 0.44%	2.232 0.41%	8.787 1.50%	9.250 1.36%	29.961 0.69%
State or Local Govt.	0.579 0.13%	0.673 0.09%	1.081 0.14%	1.938 0.34%	2.293 0.42%	1.637 0.28%	0.986 0.14%	9.189 0.21%
Not Specified	1.484 0.33%	1.035 0.14%	0.941 0.12%	1.416 0.25%	0.620 0.11%	0.052 0.01%	0.052 0.01%	5.599 0.13%
Other	0.292 0.06%	0.059 0.01%	0.009 0.00%	0.057 0.01%	0.107 0.02%	0.134 0.02%	0.121 0.02%	0.779 0.02%
Private Individual	0.026 0.01%	0.038 0.01%	0.012 0.00%	0.012 0.00%	0.053 0.01%	0.085 0.01%	0.306 0.04%	0.532 0.01%
Other Govt.						0.015 0.00%	0.015 0.00%	0.030 0.00%
Fiscal Year Total:	450.578	734.292	779.352	567.555	543.688	587.409	681.330	4,344.204
% of Fiscal Year Total:	100.00%							

G. San Francisco County (Rank No. 6)

Performer Type	1993	1994	1995	1996	1997	1998	1999	Performer Type Total
Public Educ. Institution	153.599 77.83%	187.983 77.39%	196.776 76.74%	200.050 75.38%	206.742 73.25%	202.648 69.30%	327.897 73.18%	1,475.694 74.35%
Individual Business	20.189 10.23%	26.065 10.73%	25.474 9.93%	25.903 9.76%	24.818 8.79%	30.571 10.45%	46.111 10.29%	199.132 10.03%
Federal Govt.	12.416 6.29%	15.513 6.39%	17.841 6.96%	18.691 7.04%	28.711 10.17%	34.581 11.83%	46.175 10.30%	173.929 8.76%
Non-Profit Non-Educ. Institution	8.021 4.06%	10.175 4.19%	11.220 4.38%	11.854 4.47%	12.576 4.46%	12.938 4.42%	15.793 3.52%	82.577 4.16%
State or Local Govt.	1.091 0.55%	1.243 0.51%	3.312 1.29%	4.030 1.52%	4.562 1.62%	5.835 2.00%	6.260 1.40%	26.333 1.33%
Private Educ. Institution	0.705 0.36%	0.718 0.30%	0.601 0.23%	4.651 1.75%	4.560 1.62%	4.949 1.69%	4.968 1.11%	21.152 1.07%
Not Specified	1.330 0.67%	1.222 0.50%	1.162 0.45%	0.111 0.04%	0.102 0.04%	0.322 0.11%	0.334 0.07%	4.583 0.23%
Other Govt.				0.043 0.02%	0.088 0.03%	0.089 0.03%	0.474 0.16%	0.430 0.10%
Private Individual				0.004 0.00%	0.020 0.01%	0.084 0.03%	0.090 0.03%	0.105 0.02%
Other						0.025 0.01%	0.025 0.01%	0.050 0.00%
Fiscal Year Total:	197.352	242.919	256.434	265.398	282.243	292.433	448.098	1,984.877
% of Fiscal Year Total:	100.00%							

H. San Mateo County (Rank No. 7)

Performer Type	1993	1994	1995	1996	1997	1998	1999	Performer Type Total
Federal Govt.	213.629 79.32%	213.557 74.46%	94.748 54.95%	94.690 58.43%	95.158 55.70%	95.426 54.56%	96.912 54.21%	904.120 63.89%
Non-Profit Non-Educ. Institution	44.275 16.44%	60.251 21.01%	59.803 34.69%	51.523 31.79%	55.972 32.76%	58.184 33.27%	56.822 31.78%	386.829 27.34%
Individual Business	11.064 4.11%	12.654 4.41%	17.132 9.94%	14.985 9.25%	19.205 11.24%	20.656 11.81%	24.678 13.80%	120.375 8.51%
Private Educ. Institution			0.289 0.17%	0.289 0.18%	0.289 0.17%	0.507 0.29%	0.247 0.14%	1.621 0.11%
State or Local Govt.	0.335 0.12%	0.335 0.12%	0.375 0.22%	0.464 0.29%	0.089 0.05%			1.599 0.11%
Public Educ. Institution			0.015 0.01%	0.060 0.04%	0.131 0.08%	0.116 0.07%	0.116 0.06%	0.436 0.03%
Non-Specified		NA	0.050 0.03%	0.050 0.03%				0.100 0.01%
Private Individual	0.015 0.01%	0.015 0.01%						0.030 0.00%
Fiscal Year Total:	269.319	286.813	172.412	162.060	170.842	174.889	178.775	1,415.110
% of Fiscal Year Total:	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

I. Santa Barbara County (Rank No. 8)

Performer Type	1993	1994	1995	1996	1997	1998	1999	Performer Type Total
Individual Business	70,618 61.13%	86,899 63.91%	97,754 65.00%	103,374 68.49%	103,396 68.01%	99,701 67.74%	86,532 64.36%	648,273 65.72%
Public Educ. Institution	33,487 28.99%	37,797 27.80%	42,020 27.94%	40,840 27.06%	40,862 26.88%	38,864 26.40%	42,514 31.62%	276,384 28.02%
Federal Govt.	9,467 8.20%	9,106 6.70%	8,419 5.60%	4,282 2.84%	4,257 2.80%	5,149 3.50%	2,350 1.75%	43,030 4.36%
Private Educ. Institution	1,710 1.48%	1,793 1.32%	1,809 1.20%	2,062 1.37%	2,795 1.84%	2,794 1.90%	2,843 2.11%	15,805 1.60%
Non-Profit Non-Educ. Institution	0.233 0.20%	0.377 0.28%	0.348 0.23%	0.357 0.24%	0.730 0.48%	0.665 0.45%	0.191 0.14%	2,902 0.29%
Other Govt.				0.028 0.02%	0.028 0.02%			0.056 0.01%
State or Local Govt.						0.014 0.01%	0.014 0.01%	0.028 0.00%
Not Specified				0.011 0.01%				0.011 0.00%
Fiscal Year Total:	115,515	135,971	150,389	150,943	152,040	147,187	134,443	986,489
% of Fiscal Year Total:	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

J. All Other Counties Combined

Performer Type	1993	1994	1995	1996	1997	1998	1999	Performer Type Total
Public Educ. Institution	105,460 50.72%	122,403 50.73%	132,572 49.37%	129,895 52.18%	136,718 50.34%	145,405 51.50%	178,656 57.42%	951,108 51.92%
Individual Business	81,503 39.20%	93,190 38.62%	101,593 37.84%	76,052 30.55%	87,303 32.14%	85,826 30.40%	78,655 25.28%	604,122 32.98%
Federal Govt.	10,622 5.11%	10,152 4.21%	12,780 4.76%	13,558 5.45%	15,405 5.67%	17,915 6.35%	19,902 6.40%	100,334 5.48%
State or Local Gov.	5,483 2.64%	7,003 2.90%	10,612 3.95%	15,276 6.14%	16,346 6.02%	15,880 5.62%	14,287 4.59%	84,887 4.63%
Private Educ. Institution	2,888 1.39%	3,320 1.38%	5,215 1.94%	7,447 2.99%	8,633 3.18%	9,431 3.34%	9,548 3.07%	46,483 2.54%
Non-Profit Non-Educ. Institution	1,218 0.59%	2,577 1.07%	2,488 0.93%	2,995 1.20%	3,226 1.19%	3,777 1.34%	4,694 1.51%	20,974 1.15%
Other Govt.	0.075 0.04%	1.830 0.76%	1.866 0.70%	2.177 0.87%	2.101 0.77%	2.461 0.87%	3,640 1.17%	14,150 0.77%
Other	0.302 0.15%	0.566 0.23%	0.913 0.34%	0.992 0.40%	0.823 0.30%	0.710 0.25%	0.628 0.20%	4,934 0.27%
Not Specified	0.354 0.17%	0.222 0.09%	0.469 0.17%	0.516 0.21%	0.908 0.33%	0.795 0.28%	1.045 0.34%	4,308 0.24%
Private Individual	0.015 0.01%	0.015 0.01%		0.048 0.02%	0.140 0.05%	0.140 0.05%	0.109 0.03%	0.468 0.03%
Fiscal Year Total:	207,919	241,279	268,509	248,954	271,603	282,341	311,164	1831,768
% of Fiscal Year Total:	100.00%							

VII. California's Aggregated (1993-99) Unclassified R&D Funding Analyzed By Technology Sector

A. Aggregated State-wide R&D Totals, By Technology Sectors

Technology Sector	DED	DOC	DOD	DOE	DOI	DOJ	DOL	DOT	DVA	EPA	HHS	HUD	NASA	NRC	NSF	SSA	USDA	Total
Advanced Computing	296,554	236,715	228,781										100,022	358,633				1,220,706
Advanced Materials	284,400		NA	476,856	0.090								84,649	337,868				1,183,863
Aerospace			NA										14,066,395	111,604				14,177,999
Defense		18,051,950	763,754						954,891									19,770,595
Electronics	284,400		NA										13,777	53,315				351,492
Energy		2,727	2,875,726											5,208				2,883,661
Environmental Technologies	106,327		NA	726,392	51,676					17,878	160,714		1,049,136	364,767		2,769		2,479,658
Life Sciences/Biotech			236,365						954,891		9,059,562		51,950	323,462		3,136		10,629,366
Telecommunications	12,154		NA										188,099	62,690				262,943
Transportation			NA	17,251				135,207									152,458	
Other ¹	206,489	0.687		17,646		7.961	6,575				272,165	0.788		338,357	1.661	139,383		991,712
Agency Totals:	206,489	984,523	18,291,392	5,342,771	51,766	7,961	6,575	135,207	1,909,783	17,878	9,492,440	0.788	15,554,029	5,208	1,950,696	1.661	145,287	54,104,453

B. Aggregated (1993-99) R&D Totals for the Top 8 Counties, By Technology Sectors

Technology Sector	Los Angeles	San Diego	Santa Clara	Orange	Alameda	San Francisco	San Mateo	Santa Barbara	All Other Counties	Technology Totals
Advanced Computing	198,366	302,538	220,146	18,047	322,685	19,896	39,957	43,089	55,981	1,220,706
Advanced Materials	176,118	88,872	213,371	27,308	527,279	16,324	24,699	58,216	51,677	1,183,863
Aerospace	9,785,265	181,687	1,172,622	2,171,990	249,030	19,875	108,279	335,454	153,798	14,177,999
Defense	9,641,647	3,018,645	2,685,067	2,094,838	935,082	221,314	251,441	391,088	531,473	19,770,595
Electronics	38,941	55,877	166,873	4,896	17,754	14,788	24,058	4,922	23,384	351,492
Energy	241,482	114,784	58,407	46,114	1,347,525	10,455	886,018	28,276	150,600	2,883,661
Environmental Technologies	611,263	350,253	416,125	40,603	479,187	36,404	27,959	305,757	212,105	2,479,658
Life Sciences/ Biotech	2,797,149	2,640,700	1,293,941	316,449	1,035,137	1,762,411	89,658	74,763	619,158	10,629,366
Telecommunications	174,542	23,793	20,070	18,263	12,304	2,270	0.722	3,777	7,201	262,943
Transportation	14,353	39,289	14,818	6,626	28,947	17,882	11,062	7,636	11,845	152,458
Other	265,558	131,110	73,605	20,367	196,895	77,842	17,215	36,968	172,153	991,712
County Totals:	23,944,684	6,947,547	6,335,045	4,765,500	5,151,826	2,199,462	1,481,068	1,289,948	1,989,374	54,104,453

¹ See Section VII-K of the Appendices for detailed definitions of program elements constituting this category.

C. Advanced Computing Sector (1993-99 Unclassified R&D)

Rank	County Name	DED	DOC	DOD	DOE	DOI	DOJ	DOL	DOT	DVA	EPA	HHS	HUD	NASA	NRC	NSF	SSA	USDA	County Total
1	Alameda		10.291		227.016								8.319		77.060				322.685
2	San Diego		51.559	149.349									6.211		95.418				302.538
3	Santa Clara		144.189		2.747								23.087		50.123				220.146
4	Los Angeles		22.929	72.139									23.044		80.254				198.366
5	Santa Barbara		0.056										27.329		15.705				43.089
6	San Mateo		22.714	9.552	1.765								0.740		5.186				39.957
7	San Francisco		16.679										1.316		1.902				19.896
8	Orange		5.220										0.527		12.300				18.047
9	Yolo			0.085									1.107		10.108				11.300
10	San Bernardino		6.189	2.843									0.050		0.066				9.148
11	Santa Cruz				NA								0.549		7.471				8.019
12	Contra Costa		7.479										0.189		0.075				7.743
13	Sacramento		5.051										2.650		0.030				7.730
14	Ventura		4.060										1.687						5.747
15	Riverside													2.007					2.007
16	Sonoma												1.973		0.015				1.988
17	Napa												0.935						0.935
18	Monterey												0.210		0.402				0.612
19	San Luis Obispo												0.041		0.348				0.389
20	Siskiyou		0.120											0.023					0.143
21	Butte		0.020										0.060						0.080
22	Kern													0.055					0.055
23	Fresno													0.037					0.037
24	Mendocino													0.028					0.028
25	Humboldt													0.020					0.020
	Agency Total:	296.554	236.715	228.781									100.022		358.633				1,220.706

D. Advanced Materials Sector (1993-99 Unclassified R&D)

Rank	County Name	DED	DOC	DOD	DOE	DOI	DOJ	DOL	DOT	DVA	EPA	HHS	HUD	NASA	NRC	NSF	SSA	USDA	County Total	
1	Alameda		7.808		475.306	0.074								0.307		43.784			527.279	
2	Santa Clara		144.189	NA		0.000								2.693		66.489			213.371	
3	Los Angeles		19.677	NA		0.003								73.532		82.906			176.118	
4	San Diego		51.409	NA		0.006								0.015		37.442			88.872	
5	Santa Barbara				NA									0.139		58.077			58.216	
6	Orange		3.704											6.967		16.637			27.308	
7	San Mateo		22.424	NA	1.550	0.005								0.160		0.720			24.699	
8	Yolo														0.160		19.163			19.323
9	San Francisco		14.647	NA												1.676			16.324	
10	Contra Costa		7.479													0.051			7.530	
11	Riverside															6.619			6.619	
12	San Bernardino		6.189	NA											0.010				6.201	
13	Ventura		4.000	NA		0.002									0.462				4.464	
14	Santa Cruz															3.500			3.500	
15	Sacramento		2.874	NA											0.115				2.989	
16	Monterey															0.339			0.339	
17	San Luis Obispo			NA												0.249			0.249	
18	Solano														0.164				0.164	
19	Kern														0.085		0.039		0.124	
20	San Joaquin															0.106			0.106	
21	Humboldt															0.033			0.033	
22	Stanislaus															0.018			0.018	
	<i>Not Specified</i>															0.017			0.017	
Agency Total:		284.400	NA	476.856	0.090									84.649		337.868			1,183.863	

E. Aerospace Sector (1993-1999 Unclassified R&D)

Rank	County Name	DED	DOC	DOD	DOE	DOI	DOJ	DOL	DOT	DVA	EPA	HHS	HUD	NASA	NRC	NSF	SSA	USDA	County Total
1	Los Angeles			NA									9,751.011	34.254				9,785.265	
2	Orange												2,167.351	4.639				2,171.990	
3	Santa Clara			NA									1,167.374	5.248				1,172.622	
4	Santa Barbara			NA									332.092	3.362				335.454	
5	Alameda			NA									209.437	39.594				249.030	
6	San Diego			NA									176.513	5.174				181.687	
7	San Mateo			NA									100.648	7.631				108.279	
8	Sacramento			NA									38.922					38.922	
9	San Francisco												18.374	1.502				19.875	
10	Kern			NA									19.533					19.533	
11	Yolo			NA									14.798	2.442				17.239	
12	San Bernardino			NA									16.719					16.719	
13	Santa Cruz												11.143	5.285				16.429	
14	Ventura			NA									13.186					13.186	
15	Monterey												12.349	0.054				12.403	
16	Riverside												6.444	2.340				8.784	
17	Sonoma												3.421					3.421	
18	San Luis Obispo												2.266					2.266	
19	Contra Costa												1.199					1.199	
20	Fresno												0.958					0.958	
21	Napa												0.935					0.935	
22	Placer												0.441					0.441	
23	Butte												0.360					0.360	
24	Solano												0.327					0.327	
25	Marin												0.312					0.312	
26	Kings												0.199					0.199	
27	Humboldt												0.053					0.053	
28	Tehama													0.051				0.051	
29	Mariposa												0.032					0.032	
30	San Joaquin													0.028				0.028	
Agency Total:		NA											14,066.395	111.604				14,177.999	

F. Defense Sector (1993-1999 Unclassified R&D)

Rank	County Name	DED	DOC	DOD	DOE	DOI	DOJ	DOL	DOT	DVA	EPA	HHS	HUD	NASA	NRC	NSF	SSA	USDA	County Total
1	Los Angeles			9,358.336	0.496					282.816									9,641.647
2	San Diego			2,738.965	0.187					279.494									3,018.645
3	Santa Clara			2,539.300						145.767									2,685.067
4	Orange			2,094.838															2,094.838
5	Alameda			172.351	762.732					0.000									935.082
6	Santa Barbara			391.088															391.088
7	San Mateo			251.441															251.441
8	San Francisco			48.135						173.179									221.314
9	Ventura			187.190															187.190
10	Sacramento			72.579	0.340														72.919
11	Contra Costa			31.085						40.376									71.462
12	Kern			64.880															64.880
13	San Bernardino			15.523						32.054									47.577
14	Riverside			37.134															37.134
15	Santa Cruz			11.568															11.568
16	Sonoma			6.810															6.810
17	Monterey			5.925															5.925
18	San Joaquin			5.735															5.735
19	Yolo			5.477															5.477
20	San Luis Obispo			4.087															4.087
21	Marin			3.328															3.328
22	Fresno			1.483						1.206									2.688
23	Lake			1.045															1.045
24	Inyo			0.896															0.896
25	Napa			0.683															0.683
26	Placer			0.589															0.589
27	Solano			0.314															0.314
28	Tuolumne			0.293															0.293
29	Stanislaus			0.270															0.270
30	San Benito			0.237															0.237
31	Yuba			0.099															0.099
32	Mendocino			0.065															0.065
33	El Dorado			0.062															0.062
34	Siskiyou			0.062															0.062
35	Butte			NA															NA
36	Humboldt			NA															NA
	<i>Not Specified</i>			0.079															0.079
Agency Total:		18,051.950	763.754							954.891									19,770.595

G. Electronics Sector (1993-1999 Unclassified R&D)

Rank	County Name	DED	DOC	DOD	DOE	DOI	DOJ	DOL	DOT	DVA	EPA	HHS	HUD	NASA	NRC	NSF	SSA	USDA	County Total
1	Santa Clara		144.189	NA									3.475	19.209				166.873	
2	San Diego		51.409	NA									0.688	3.780				55.877	
3	Los Angeles		19.677	NA									9.414	9.850				38.941	
4	San Mateo		22.424	NA										1.634				24.058	
5	Alameda		7.808										0.200	9.746				17.754	
6	San Francisco		14.647	NA										0.141				14.788	
7	Contra Costa		7.479															7.479	
8	San Bernardino		6.189	NA														6.189	
9	Santa Barbara			NA										4.922				4.922	
10	Orange		3.704											1.192				4.896	
11	Ventura		4.000	NA														4.000	
12	Sacramento		2.874	NA														2.874	
13	Yolo													1.881				1.881	
14	Santa Cruz													0.479				0.479	
15	San Luis Obispo													0.322				0.322	
16	Riverside													0.160				0.160	
Agency Total:		284.400	NA										13.777	53.315				351.492	

H. Energy Sector (1993-1999 Unclassified R&D)

Rank	County Name	DED	DOC	DOD	DOE	DOI	DOJ	DOL	DOT	DVA	EPA	HHS	HUD	NASA	NRC	NSF	SSA	USDA	County Total
1	Alameda			0.633	1,346.822									0.070				1,347.525	
2	San Mateo			0.105	885.913													886.018	
3	Los Angeles			0.162	240.403									0.917				241.482	
4	San Diego			0.956	113.627									0.201				114.784	
5	Yolo				87.306													87.306	
6	Santa Clara			0.347	57.310								0.750					58.407	
7	Orange			0.019	46.090								0.005					46.114	
8	Santa Barbara				25.397								2.880					28.276	
9	Santa Cruz				24.891													24.891	
10	Sacramento			0.005	20.712								0.232					20.949	
11	San Francisco			0.171	10.130								0.154					10.455	
12	Riverside				7.417													7.417	
13	Contra Costa			0.277	3.802													4.079	
14	San Bernardino				3.394													3.394	
15	Ventura				1.568													1.568	
16	Marin			0.052	0.489													0.541	
17	Kern				0.162													0.162	
18	Monterey				0.149													0.149	
19	Fresno				0.040													0.040	
20	San Joaquin				0.039													0.039	
21	Butte				0.038													0.038	
22	Sonoma				0.027													0.027	
Agency Total:		2.727	2,875.726										5.208					2,883.661	

I. Environmental Technologies Sector (1993-1999 Unclassified R&D)

Rank	County Name	DED	DOC	DOD	DOE	DOI	DOJ	DOL	DOT	DVA	EPA	HHS	HUD	NASA	NRC	NSF	SSA	USDA	County Total
1	Los Angeles	7.966	NA	112.636	20.796						0.485	23.189		365.548	80.643				611.263
2	Alameda	0.920		376.316	5.623						2.768	50.629		12.421	28.602	1.908			479.187
3	Santa Clara	5.067	NA	25.555	3.642						1.648	5.047		348.922	26.244				416.125
4	San Diego	79.343	NA	120.235	2.759						2.558	9.068		29.020	107.219	0.050			350.253
5	Santa Barbara	1.769	NA		0.940									269.434	33.614				305.757
6	Yolo	1.249		4.755	3.626							53.283		1.266	22.469				86.648
7	Orange	0.374	NA	17.862	0.143						3.362	2.664		7.060	9.139				40.603
8	Sacramento	5.492	NA	16.146	7.847						6.644	0.888		2.650	0.095	0.004			39.765
9	San Francisco	0.693		17.082	0.986						0.003	10.355		1.604	5.681				36.404
10	San Mateo			NA	0.106	1.298					0.386	2.236		4.092	19.842				27.959
11	Sonoma	0.130		23.377										2.806	0.005				26.319
12	Santa Cruz	1.101	NA		0.916							0.559		1.263	17.781	0.001			21.622
13	Riverside				0.010	1.087						1.374			7.874	NA			10.345
14	Lake				7.434														7.434
15	Monterey	1.793	NA		0.053									0.600	4.123				6.570
16	Contra Costa				1.135	1.400					0.023	0.438		0.169					3.165
17	Humboldt	0.010		2.369	0.148										0.500				3.027
18	Ventura			NA		0.035								1.607	0.012				1.655
19	Marin	0.224		0.973	0.155										0.071				1.423
20	San Bernardino			NA								0.910		0.050	0.156				1.116
21	Kings															0.800			0.800
22	San Luis Obispo													0.066	0.409	0.006			0.480
23	Fresno													0.474			NA		0.474
24	Modoc			0.346															0.346
25	Kern			0.055	0.018										0.201				0.274
26	Trinity	0.145																	0.145
27	Butte												0.060		0.084				0.143
28	San Joaquin											0.075			0.002				0.077
29	Del Norte	0.050				0.025													0.050
30	Placer					0.010								0.023					0.025
31	Solano																		0.023
32	Glenn																		0.010
33	Shasta															NA			NA
34	Tulare														NA				NA
	<i>Not Specified</i>					0.169													0.169
	Agency Total:	106.327	NA	726.392	51.676						17.878	160.714		1,049.136	364.767	2.769			2,479.658

J. Life Sciences/Biotechnology Sector (1993-1999 Unclassified R&D)

Rank	County Name	DED	DOC	DOD	DOE	DOI	DOJ	DOL	DOT	DVA	EPA	HHS	HUD	NASA	NRC	NSF	SSA	USDA	County Total
1	Los Angeles				NA					282.816	2,448.039	6.696	59.598		NA			2,797.149	
2	San Diego				NA					279.494	2,302.746	4.757	53.703		NA			2,640.700	
3	San Francisco				NA					173.179	1,568.957	4.894	15.381		NA			1,762.411	
4	Santa Clara				NA					145.767	1,101.458	9.217	37.499		NA			1,293.941	
5	Alameda				NA	218.400				0.000	757.241	15.234	43.240		1.023			1,035.137	
6	Yolo				NA						324.351	3.348	49.310			2.113		379.121	
7	Orange				NA						301.136	1.368	13.944					316.449	
8	San Mateo					17.964					71.429	0.264						89.658	
9	Santa Barbara				NA						45.518	0.165	29.080					74.763	
10	San Bernardino				NA					32.054	22.638	3.500	0.477					58.669	
11	Santa Cruz				NA						44.792	1.097	8.117		NA			54.006	
12	Contra Costa				NA					40.376	11.620	0.010						52.006	
13	Riverside				NA						40.254		11.685		NA			51.939	
14	Sacramento				NA						9.100		0.051					9.151	
15	San Joaquin				NA						2.723		0.432					3.155	
16	Marin				NA						3.072		0.078					3.150	
17	Fresno								1.206	0.993	0.206			NA			2.405		
18	Monterey									0.104	1.177	0.301		NA			1.582		
19	Sonoma										1.016		0.012					1.027	
20	San Luis Obispo										0.495		0.035					0.529	
21	Tulare										0.476			NA				0.476	
22	Humboldt										0.186	0.017	0.176					0.380	
23	Placer										0.349							0.349	
24	Stanislaus										0.318							0.318	
25	Shasta										0.212							0.212	
26	Inyo										0.100		0.103					0.203	
27	Ventura										0.100		0.085		NA			0.185	
28	Butte										0.029		0.084					0.113	
29	Solano										0.080							0.080	
30	Kern												0.070		NA			0.070	
31	Lassen										0.030							0.030	
32	Imperial														NA				
	Agency Total:									236.365	954.891	9,059.562	51.950	323.462	3.136	10,629.366			

K. Telecommunications Sector (1993-1999 Unclassified R&D)

Rank	County Name	DED	DOC	DOD	DOE	DOI	DOJ	DOL	DOT	DVA	EPA	HHS	HUD	NASA	NRC	NSF	SSA	USDA	County Total
1	Los Angeles		3.252	NA									149.637	21.653				174.542	
2	San Diego		0.150	NA									0.369	23.273				23.793	
3	Santa Clara				NA								14.839	5.231				20.070	
4	Orange			1.516	NA								15.045	1.701				18.263	
5	Alameda			2.483									2.644	7.177				12.304	
6	Santa Barbara		0.056	NA									2.587	1.134				3.777	
7	San Francisco		2.032										0.219	0.020				2.270	
8	Yolo				NA								0.439	1.805				2.244	
9	Sacramento		2.177	NA														2.177	
10	Napa												0.935					0.935	
11	Ventura		0.060	NA									0.752					0.812	
12	San Mateo		0.289	NA									0.378	0.055				0.722	
13	Riverside													0.266				0.266	
14	Monterey			NA									0.233					0.233	
15	Santa Cruz				NA									0.213				0.213	
16	Siskiyou		0.120											0.023				0.143	
17	Contra Costa												0.020	0.055				0.075	
18	Mendocino													0.028				0.028	
19	Kern													0.022				0.022	
20	Butte		0.020															0.020	
21	Humboldt													0.020				0.020	
22	San Bernardino				NA									0.015				0.015	
23	San Luis Obispo				NA													NA	
	<i>Not Specified</i>				NA													NA	
Agency Total:		12.154	NA										188.099	62.690				262.943	

L. Transportation Sector (1993-1999 Unclassified R&D)

Rank	County Name	DED	DOC	DOD	DOE	DOI	DOJ	DOL	DOT	DVA	EPA	HHS	HUD	NASA	NRC	NSF	SSA	USDA	County Total
1	San Diego			NA					39.289									39.289	
2	Alameda			NA	17.251				11.696									28.947	
3	San Francisco								17.882									17.882	
4	Santa Clara					NA			14.818									14.818	
5	Los Angeles						NA		14.353									14.353	
6	Sacramento							NA	11.195									11.195	
7	San Mateo							NA	11.062									11.062	
8	Santa Barbara								7.636									7.636	
9	Orange								6.626									6.626	
10	Santa Cruz								0.281									0.281	
11	Ventura								0.215									0.215	
12	San Bernardino								0.120									0.120	
13	Contra Costa								0.019									0.019	
14	Riverside								0.015									0.015	
15	Monterey					NA												NA	
Agency Total:		NA	17.251						135.207									152.458	

M. Other² (1993-99 Unclassified R&D)

Rank	County Name	DED	DOC	DOD	DOE	DOI	DOJ	DOL	DOT	DVA	EPA	HHS	HUD	NASA	NRC	NSF	SSA	USDA	County Total
1	Los Angeles	43.464	0.140		0.136		2.922				137.647	0.592		75.961	0.778	3.918		265.558	
2	Alameda	73.664			14.411		1.975	0.603			18.282	0.075		39.866	0.204	47.815		196.895	
3	San Diego	6.987			0.266		0.747				23.743	0.025		94.525		4.817		131.110	
4	San Francisco	29.603					0.600	0.411			42.959	0.035		2.806	0.299	1.130		77.842	
5	Yolo	5.443			0.106		0.181				1.237			13.337		55.340		75.643	
6	Santa Clara	14.580	0.038		1.440			0.279			20.893			34.600	0.134	1.640		73.605	
7	Santa Cruz	20.870									0.933			14.508		0.896		37.206	
8	Santa Barbara	1.184					0.556	0.025			7.140			27.208		0.856		36.968	
9	Riverside	2.578					0.002				0.681			9.374		10.222		22.858	
10	Orange	1.830			0.948		0.379				3.693			12.611	0.028	0.878		20.367	
11	San Mateo	1.708	0.348		0.255			4.790			1.617			8.232		0.264		17.215	
12	Sacramento	0.433			0.010		0.460	0.038			6.665	0.060		0.187		8.283		16.136	
13	Fresno	2.932					0.046				0.138			0.105		0.659		3.880	
14	Monterey										0.495			3.043		0.143		3.682	
15	Butte	0.359									1.302				0.218	0.067		1.945	
16	Humboldt										0.698			0.514		0.727		1.939	
17	Contra Costa	0.184									0.750			0.092		0.080		1.106	
18	Ventura										0.999					0.023		1.022	
19	Marin	0.038	0.161								0.819							1.019	
20	San Bernardino						0.072				0.027			0.462		0.451		1.011	
21	Solano	0.131		0.075			0.430									0.149		0.786	
22	San Luis Obispo						0.021					0.067			0.386		0.394		0.780
23	Imperial															0.543		0.631	
24	Sonoma	0.379									0.150			0.005		0.040		0.575	
25	Modoc										0.300					0.010		0.310	
26	Kern	0.062														0.214		0.276	
27	Plumas										0.250							0.250	
28	Mendocino										0.099			0.135				0.234	
29	Shasta										0.233							0.233	
30	San Joaquin													0.186		0.021		0.207	
31	Glenn										0.150							0.150	
32	Kings	0.060																0.060	
33	Calaveras										0.050							0.050	
34	Colusa										0.050							0.050	
35	Napa										0.050							0.050	
36	Tuolumne										0.050							0.050	
37	Tulare														0.015			0.015	
Agency Total:		206.489	0.687	17.646	7.961	6.575					272.165	0.788		338.357	1.661	139.383		991.712	

² See Section VII-K of the Appendices for detailed definitions of program elements constituting this category.

VIII. Technology Sectors Defined

A. Advanced Computing

Level 1	Level 2	Level 3	Level 4	Total (\$Millions)
DOC	National Institute of Standards & Technology	Advanced Technology Program	Advanced technology program	284.400
	National Telecommunications & Information Administration	Technology opportunity grants	(blank)	12.154
DOD	Defense Advanced Research Projects Agency	0602301E - Computing Systems & Communications Technology	Project number unspecified	NA
	Defense Information Systems Agency	R&D Contracts Not Linked to Specific Program Elements	(blank)	35.397
	National Imagery and Mapping Agency	R&D Contracts Not Linked to Specific Program Elements	(blank)	201.318
	National Security Agency	0301011G - Cryptologic Activities	Project number unspecified	NA
DOE	Science	Advanced scientific computing research (formerly Computational & technology research)	Advanced energy projects - Research (In Basic energy sciences prior to FY97)	4.841
			Laboratory technology research - Research Mathematical, information & computational sciences - Research	6.387 217.554
NASA	Aero-Space Technology (Aeronautical Research & Technology until FY01)	High performance computing & communications (HPPC)	(blank)	0.283
		Research and technology base	Information technology (includes equipment costs)	0.035
	Earth Science - Mission to Planet Earth (MTPE)	Earth observing system (EOS)	Algorithm development	19.489
		EOS data information system (EOSDIS)	(blank)	52.630
		High performance computing & communications (HPCC)	(blank)	16.902
		Information systems	(blank)	10.683
NSF	Computer & Information Science & Engineering (CISE/CSE)	Advanced computational infrastructure & research (ACI) (includes equipment)	Advanced computational research (includes equipment) Advanced Scientific Computing Centers (includes equipment)	13.061 51.283
		Advanced networking infrastructure & research (ANI) (includes equipment)	Advanced networking infrastructure (includes equipment) Advanced networking research NSFNET (includes equipment) Special projects	21.753 13.493 14.603 4.589
		Computer-communications research (CCR)	Communications research Computer systems architecture	7.934 8.202

Level 1	Level 2	Level 3	Level 4	Total (\$Millions)
			Computer-communications research - Other Design automation Numeric & symbolic computation Operating systems & compilers Signal processing systems Software engineering & languages Theory of computing	0.039 7.610 8.063 4.503 8.952 7.480 7.029
		Experimental & integrative activities (EIA)	Experimental systems Next generation software	14.421 1.172
		Information & intelligent systems (IIS)	Database & expert systems Information & intelligent systems - Other Information technology organizations Interactive systems Knowledge models & cognitive systems Robotics & machine intelligence Universal access	11.562 3.552 18.170 8.318 6.453 8.640 0.050
Mathematical & Physical Sciences (MPS)	Mathematical sciences (DMS)		Algebra & number theory Analysis Applied mathematics Computational mathematics Geometric analysis Mathematical sciences - Other Statistics & Probability Topology & Foundations	10.287 13.445 13.132 11.020 8.156 25.511 16.409 9.743
Grand Total				1,220.706

B. Advanced Materials

Level 1	Level 2	Level 3	Level 4	Total (\$Million)	
DOC	National Institute of Standards & Technology	Advanced Technology Program	Advanced technology program	284.400	
DOD	Defense Advanced Research Projects Agency	0602712E - Materials & Electronics Technology	Project number unspecified	NA	
	Dept of the Air Force	0602102F - Materials	4348 - Materials and Processes for Electronics, Optics and Survivability	NA	
	Dept of the Navy	0602234N - Materials and Radio Frequency/ Electric-Optics/ Infrared Electronics Technology	Project number unspecified	NA	
DOE	Energy Conservation	Transportation sector	Materials technology	4.247	
	Fissile Materials Disposition (NNSA/Other Nuclear Security Activity)	(blank)	(blank)	58.728	
	Science	Basic energy sciences (NOTE: Level 4 amounts include funding for equipment)	Materials sciences -- Facilities operations Materials sciences -- Research	205.924 207.958	
DOI	Bureau of Mines	Mineral Institutes	(blank)	0.074	
		R&D Contracts	(blank)	0.016	
NASA	Aero-Space Technology (Aeronautical Research & Technology until FY01)	Research and technology base	Materials and structures R&T (ended in FY95)	84.649	
NSF	Engineering (ENG)	Chemical & transport systems (CTS)	Chemical & transport systems - Other	0.256	
			Chemical reaction processes	7.509	
			Fluid, particulate & hydraulic systems	12.047	
			Interfacial, transport & separation processes	5.918	
		Civil & mechanical systems (CMS)	Thermal systems	11.769	
			Mechanics & materials	19.641	
	Mathematical & Physical Sciences (MPS)	Chemistry (CHE)	Analytical & surface	15.035	
			Chemistry - Other	0.433	
			Education & human resources	4.319	
			Inorganic chemistry	25.776	
			Material & synthesis	3.567	
	Materials research (DMR)		Methodology	16.799	
			Molecular processes	14.657	
			Organic chemistry	15.177	
			Spectroscopy	19.136	
			Theoretical & computational	22.425	
Grand Total				1,183.863	

C. Aerospace

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
DOD	Ballistic Missile Defense Organization	0602173C - Support Technologies - Applied Research	1660 - Statutory & Mandatory Programs Project number unspecified	NA NA
		0603173C - Support Technologies - Advanced Technology Development	Project number unspecified	NA
		0603215C - Limited Defense System	Project number unspecified	NA
		0603217C - Ballistic Missile Defense Tech	1405 - Communications Eng Tech	NA
		0603218C - Research and Support Activities	Project number unspecified	NA
	Dept of the Air Force	0602201F - Aerospace Flight Dynamics	2402 - Vehicle Equipment 2403 - Flight Control & Pilot-Vehicle Interface	NA NA
		0602203F - Aerospace Propulsion	3012 - Advanced Propulsion Technology 3066 - Turbine Engine Technology	NA NA
		0602204F - Aerospace Sensors	2001 - Electro-Optical Technology 6096 - Microelectronics Technology	NA NA
		0602302F - Rocket Propulsion & Astronautics Tech	3058 - Space Systems Propulsion Technology Project number unspecified	NA NA
		0602601F - Space Technology (Phillips Lab Exploratory Development)	1011 - Rocket Propulsion Technology 5797 - Advanced Weapons and Survivability Technology Project number unspecified	NA NA NA
		0603211F - Aerospace Structures	486U - Advanced Aerospace Structures	NA
		0603401F - Advanced Spacecraft Technology	682J - Spacecraft Vehicles	NA
		0603430F - Advanced EHF MILSATCOM (SPACE)	Project number unspecified	NA
		0603726F - Aerospace Information Technology System Integration	2863 - Integrated Photonics	NA
	Dept of the Navy	0602122N - Aircraft Technology	Project number unspecified	NA
NASA	Academic Programs	Educational affairs	Education technology Special projects Student support Systemic improvement of education Teacher/faculty preparation & enhancement	0.427 0.815 2.153 0.478 0.281
		Minority university research & education	Historically black colleges and universities (HBCU)	16.719
	Aero-Space Technology (Aeronautical Research & Technology until FY01)	Advanced subsonic technology (ended in FY99)	(blank)	118.128
		Aeronautical systems technology (ended in FY95)	Numerical aerodynamic simulation (ended in FY95)	1.600
		Aviation safety	(blank)	2.450

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
		Aviation system capacity	(blank)	0.176
		High performance computing & communications (HPPC)	(blank)	0.283
		High speed research (ended in FY99)	(blank)	0.040
		Other	Aeronautical R&T research operations support (FY93 only)	7.312
		Research and technology base	Controls, guidance and human factors R&T (ended in FY 95) Flight research (includes equipment costs) Hypersonic technology (ended in FY95) Information technology (includes equipment costs) Materials and structures R&T (ended in FY95) Operations systems (includes equipment costs) Propulsion and power (includes equipment costs) Rotorcraft technology (includes equipment costs) Vehicle system technology (formerly Airframe systems) (includes equipment costs)	0.048 86.814 47.993 0.035 84.649 7.408 0.137 0.537 219.747
		Ultra-efficient engine technology	(blank)	1.587
Commercial Technology (included Advanced Space Technology until FY01)	Advanced space transportation (merged into Aero-Space Technology in FY01)		Advanced space transportation program (ASTP) (merged into Aero-Space Technology in FY01)	955.628
			Future space launch studies (merged into Aero-Space Technology in FY01)	0.250
			Transportation technology support	3.571
	Commercial technology		General activities	33.796
			Small business innovative research (SBIR) Technology transfer agents	0.169 6.471
	Flight programs (ended in FY 95)		(blank)	5.542
	Other		Advanced concepts (FYs 96 & 97 only) Advanced smallsat technology (FYs 94 & 95 only) Industrial technology program (FYs 94, 95 & 96 only)	11.989 70.456 21.151
	Spacecraft & remote sensing (ended in FY95)		Autonomy & operations (ended in FY95) Space communications (ended in FY95) Spacecraft systems technology (ended in FY95)	5.797 0.050 0.415

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
	Earth Science - Mission to Planet Earth (MTPE)	Advanced geostratinary studies	(blank)	314.905
		Airborne science & applications program	(blank)	39.885
		Commercial remote sensing program (CRSP)	(blank)	1.098
		Earth observing system (EOS)	Algorithm development Aqua (PM Series) Chemistry Landsat 7 QuikScat Special spacecraft Technology infusion/Advanced Technology Initiative (Sensor & detector technology) Technology infusion/Instrument incubator Terra (AM Series)	19.489 139.717 8.470 57.492 20.974 4.443 10.138 3.176 210.763
		Earth probes development	Earth system science pathfinders (ESSP) (includes equipment) NASA scatterometer (NSCAT) (includes equipment) (ended in FY96) Total ozone mapping spectrometer (TOMS) (includes equipment) Triana (includes equipment) Tropical rainfall measuring mission (TRMM) (includes equipment)	0.847 0.078 69.528 4.765 34.188
		EOS data information system (EOSDIS)	(blank)	52.630
		EOS science	(blank)	54.067
		GLOBE (Global observations to benefit the environment)	(blank)	1.995
		High performance computing & communications (HPCC)	(blank)	16.902
		Information systems	(blank)	10.683
		Mission operations (includes data analysis thru FY95)	(blank)	1.151
		Mission science teams	(blank)	47.097
		Mission to planet earth research operations support (FY93 only)	(blank)	137.350
		MTPE launch services	(blank)	6.530
		Research & analysis (includes UAV until FY99 and equipment)	(blank)	2.055
		Uncrewed aerial vehicles (UAVs)	(blank)	0.230
	Investments and Support (Payload & Utilization Ops until FY01)	Advanced projects	(blank)	34.512
	Life and Microgravity Science	Life sciences	Advanced human support technologies (included Bio res & counter prior to FY98)	21.805

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
			Biomedical research & countermeasures (in Adv human suport tech prior to FY98) Fundamental biology (Gravitational biology & ecology research until FY01) Space station utilization	16.812 13.237 0.096
		Microgravity research	Flight experiments Research and analysis	41.671 42.069
		Mission integration	General activities	4.447
		Space station facilities	(blank)	0.557
Mission Communication Services	(blank)	(blank)	(blank)	7.728
Space Communication Services (FY95 only)	Launch services (FY 95 only)	(blank)	(blank)	85.652
Space Safety, Reliability & Quality Assurance (FY's 93 and 94 only)	(blank)	(blank)	(blank)	4.697
Space Science	Cassini	(blank)	(blank)	2,004.725
	Chandra/Advanced x-ray astrophysics facility	(blank)	(blank)	0.564
	Discovery	(blank)	(blank)	55.074
	Explorer development	(blank)	(blank)	102.053
	Global geospace science (ended FY95)	(blank)	(blank)	46.974
	Launch services	(blank)	(blank)	330.950
	Mars surveyor	(blank)	(blank)	3.286
	Mission operations (reorganized in FY00, previously included data analysis activity)	(blank)	(blank)	643.782
	Payloads	(blank)	(blank)	2,045.815
	Relativity mission development	(blank)	(blank)	228.976
	SOFIA	(blank)	(blank)	0.544
	Suborbital program	(blank)	(blank)	9.555
	Supporting research & technology (reorganized in FY00, data analysis activity added)	Core program/Cross-enterprise technology Core program/Space science technology (reorganized in FY97) Data analysis (included in Mission operations until FY00) Flight validation/New millenium program Focused programs Research and analysis	(Core program/Cross-enterprise technology Core program/Space science technology (reorganized in FY97) Data analysis (included in Mission operations until FY00) Flight validation/New millenium program Focused programs Research and analysis	35.907 40.466 80.738 0.200 47.869 84.619 0.064
	Telerobotics	(blank)	(blank)	
Space Shuttle (FY's 93 and 94 only)	Space shuttle capacity development (FY's 93 and 94 only)	(blank)	(blank)	15.135
Space station	Development and operations capability	Assured crew return vehicle (FY93 only) Flight Hardware Flight technology demonstrations	(Assured crew return vehicle (FY93 only) Flight Hardware Flight technology demonstrations)	2.554 1,385.006 0.066

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
			Operations capability Test, manufacturing, and assembly Transportation support	5.593 0.322 3,636.522
NSF	Education & Human Resources (EHR)	Education & human resources - Other (estimate)	R&D activities	11.612
		Research, evaluation & communication (REC/RED) (estimate)	R&D activities	26.447
	Mathematical & Physical Sciences (MPS)	Astronomical sciences (AST) (includes equipment)	Astronomical sciences - Other (includes equipment)	27.812
			Extragalactic astronomy & cosmology	15.954
			Galactic astronomy	7.557
			Planetary astronomy	2.485
			Special programs in astronomy	1.810
	U.S. Polar Research Programs (O/D, DPP, OPP)		Stellar astronomy & astrophysics	14.302
	U.S. Antarctic Research Grants Program (includes equipment)	Aeronomy & astrophysics	3.625	
Grand Total				14,177.999

D. Defense

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
DOD	Ballistic Missile Defense Organization	0602173C - Support Technologies - Applied Research	1660 - Statutory & Mandatory Programs Project number unspecified	NA NA
		0603173C - Support Technologies - Advanced Technology Development	Project number unspecified	NA
		0603215C - Limited Defense System	Project number unspecified	NA
		0603217C - Ballistic Missile Defense Tech	1405 - Communications Eng Tech	NA
		0603218C - Research and Support Activities	Project number unspecified	NA
		R&D Contracts Not Linked to Specific Program Elements	(blank)	399.133
DoD	Chemical & Biological Defense Program	0601384BP - Chemical & Biological Defense Program	TC1 - Medical Chemical Defense	NA
	Corps of Engineers	Extramural awards	(blank)	2.727
	Defense Advanced Research Projects Agency	0601101E - Defense Research Sciences	ES-01 - Electronic Sciences Project number unspecified	NA NA
		0602301E - Computing Systems & Communications Technology	Project number unspecified	NA
		0602383E - Biological Warfare Defense	Project number unspecified	NA
		0602702E - Tactical Technology	Project number unspecified	NA
		0602708E - Integrated Command & Control Technology	Project number unspecified	NA
		0602712E - Materials & Electronics Technology	Project number unspecified	NA
		0603226E - Experimental Evaluation of Major Innovative Tech	Project number unspecified	NA
		0603569E - Advanced Submarine Technology	Project number unspecified	NA
		0603570E - Defense Reinvestment	Project number unspecified	NA
		0603739E - Advanced Electronics Technologies	MT-04 - Electronic Module Technology Project number unspecified	NA NA
		0603760E - Command, Control and Communications Systems	Project number unspecified	NA
		0603763E - Marine Technology	Project number unspecified	NA
		0603764E - Land Warfare Technology	Project number unspecified	NA
		R&D Contracts Not Linked to Specific Program Elements	(blank)	454.538
	Defense Information Systems Agency	R&D Contracts Not Linked to Specific Program Elements	(blank)	35.397
	Defense Logistics Agency	0708011S - Industrial Preparedness	Project number unspecified	NA

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
		R&D Contracts Not Linked to Specific Program Elements	(blank)	23.301
	Defense Special Weapons Agency	R&D Contracts Not Linked to Specific Program Elements	(blank)	485.437
	Dept of the Air Force	0601102F - Defense Research Sciences	2302 - Solid Mechanics and Structures	NA
		0602101F - Geophysics	Project number unspecified	NA
		0602102F - Materials	4348 - Materials and Processes for Electronics, Optics and Survivability	NA
		0602201F - Aerospace Flight Dynamics	2402 - Vehicle Equipment 2403 - Flight Control & Pilot-Vehicle Interface	NA NA
		0602202F - Human Effectiveness Applied Research	1900 - Environmental Quality Technology	NA
		0602203F - Aerospace Propulsion	3012 - Advanced Propulsion Technology 3066 - Turbine Engine Technology	NA NA
		0602204F - Aerospace Sensors	2001 - Electro-Optical Technology 6096 - Microelectronics Technology	NA NA
		0602206F - Civil Engineering & Environmental Quality	1900 - Environmental Quality Technology	NA
		0602302F - Rocket Propulsion & Astronautics Tech	3058 - Space Systems Propulsion Technology Project number unspecified	NA NA
		0602601F - Space Technology (Phillips Lab Exploratory Development)	1011 - Rocket Propulsion Technology 5797 - Advanced Weapons and Survivability Technology Project number unspecified	NA NA NA
		0602702F - Command, Control & Communications	2338 - Reliability Sciences Technology 4519 - Communications Technology 4594 - Information Technology 4600 - Electromagnetic Technology 5581 - Command and Control (C2) Technology Project number unspecified	NA NA NA NA NA NA
		0603211F - Aerospace Structures	486U - Advanced Aerospace Structures	NA
		0603253F - Advanced Sensor Integration	3833 - Integrated Avionics for Aging Aircraft	NA
		0603260F - Intelligence Advanced Development	3481 - Knowledge Based Technology for Intelligence	NA
		0603270F - Electronic Combat Technology	431G - Radio Frequency (RF) Warning & Countermeasures	NA
		0603401F - Advanced Spacecraft Technology	682J - Spacecraft Vehicles	NA

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
		0603430F - Advanced EHF MILSATCOM (SPACE)	Project number unspecified	NA
		0603605F - Advanced Weapons Technology	3150 - Advanced Optics Technology 3647 - High Energy Laser Technology	NA NA
		0603723F - Environmental Engineering Technology	2103 - Environmental Quality Advanced Technology	NA
		0603726F - Aerospace Information Technology System Integration	2863 - Integrated Photonics	NA
		0603728F - Battlespace C2 Technology	2527 - Software Life Cycle Tools 2532 - Knowledge-Based Systems	NA NA
		0603742F - Combat Identification Technology	2597 - Non-Cooperative Identification Subsystems	NA
		0604740F - Integrated Command & Control Applications (IC2A)	Project number unspecified	NA
		0708011F - Industrial Preparedness	2865 - Industrial Preparedness - Manufacturing Technology	NA
		R&D Contracts Not Linked to Specific Program Elements	(blank)	9,441.615
Dept of the Army	0601102A - Defense Research Sciences	BH57 - Scientific Problems with Military Applications	NA	
		BS12 - Science Base/Medical Biological Defense	NA	
		BS14 - Science Base/Combat Casualty Care Research	NA	
		BS15 - Science Base/Army Operational Medicine Research	NA	
		Project number unspecified	NA	
	0602303A - Missile Technology	Project number unspecified	NA	
		A835 - Military Medical Environmental Criteria	NA	
	0602787A - Medical Technology	A838 - Neutrotoxin Exposure Treatment	NA	
		A839 - Computer-Assisted Sig	NA	
		A845 - Bone Disease Research	NA	
		A870 - DoD Medical Defense Against Infectious Diseases	NA	
		A872 - Neurofibromatosis Research	NA	
		A874 - Combat Casualty Care Technology	NA	
		A878 - Health Hazards of Military Materiel	NA	
		A920 - Prostate Cancer Research	NA	
		Project number unspecified	NA	
	0603002A - Medical Advanced Technology	D801 - Defense Women's Health Research D804 - Prostate Cancer Research D806 - Breast Cancer Research	NA NA NA	

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
			D810 - Industrial Base/Infectious Disease Vaccines and Drugs D814 - Neurofibromatosis D840 - Combat Injury Management Project number unspecified	NA NA NA NA
	0603105A - Military HIV Research	DH29 - Military HIV Research		NA
	0603308A - Army Missile Defense System Integration - Dem/Val	Project number unspecified		NA
	R&D Contracts Not Linked to Specific Program Elements	(blank)		4,018.899
Dept of the Navy	0101224N - SSBN Security Technology Program	Project number unspecified		NA
	0601152N - In-House Independent Laboratory Res	Project number unspecified		NA
	0601153N - Defense Research Sciences	Project number unspecified		NA
	0602111N - Air and Surface Launched Weapons Technology	Project number unspecified		NA
	0602121N - Ship, Submarine & Logistics Technology	Project number unspecified		NA
	0602122N - Aircraft Technology	Project number unspecified		NA
	0602131M - Marine Corps Landing Force Technology	Project number unspecified		NA
	0602232N - Communications, Command and Control, Intel, Surveillance	Project number unspecified		NA
	0602233N - Human Systems Technology	Project number unspecified		NA
	0602234N - Materials and Radio Frequency/ Electric-Optics/ Infrared Electronics Technology	Project number unspecified		NA
	0602270N - Electronic Warfare Technology	Project number unspecified		NA
	0602314N - Undersea Surveillance Weapon Technology	Project number unspecified		NA
	0602315N - Mine Countermeasure, Mining & Special Warfare Technology	Project number unspecified		NA
	0602435N - Oceanographic & Atmospheric Technology	Project number unspecified		NA
	0602633N - Undersea Warfare Weaponry Technology	Project number unspecified		NA
	0603238N - Precision Strike & Air Defense Technology	Project number unspecified		NA
	0603508N - Surface Ship & Submarine HM&E Advanced Technology	Project number unspecified		NA
	0603706N - Medical Development	Project number unspecified		NA

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
		0603707N - Manpower,Personnel, Training Adv Tech Dev	L2235 - Interactive Multisensor Analysis Training Technology Project number unspecified	NA NA
		0603712N - Environmental Quality & Logistics Advanced Technology	Project number unspecified	NA
		0603721N - Environmental Protection	Y0817 - Pollution Abatement Ashore	NA
		0603782N - Mine and Expeditionary Warfare Advanced Technology	Project number unspecified	NA
		0603785N - Combat Systems Oceanographic Performance Assessment	Project number unspecified	NA
		0603790N - NATO Research & Development	Project number unspecified	NA
		0604558N - VIRGINIA Class Design Development (formerly New Design SSN)	F1947 - VIRGINIA Class HM&E Development	NA
		0604703N - Personnel, Training, Simulation, and Human Factor	Project number unspecified	NA
		0604784N - Distributed Surveillance System	Project number unspecified	NA
		0605152N - Studies and Analysis Support - Navy	Project number unspecified	NA
		0605873M - Marine Corps Program Wide Support	C0073 - Human Resources Management and Forecasting3	NA
		R&D Contracts Not Linked to Specific Program Elements	(blank)	2,971.524
	National Imagery and Mapping Agency	R&D Contracts Not Linked to Specific Program Elements	(blank)	201.318
	National Security Agency	0301011G - Cryptologic Activities	Project number unspecified	NA
	Office of the Secretary of Defense	0601103D8Z - University Research Initiatives	Project number unspecified	NA
		0602227D8Z - Medical Free Electron Laser	Project number unspecified	NA
		0603160D8Z - Counterproliferation Advanced Technology Development	Project number unspecified	NA
		0603716D8Z - Strategic Environmental Research & development Program (SERDP)	P470 - Strategic Environmental Research and Development Program (SERDP) Project number unspecified	NA NA
		0603752D8Z - Commercial Technology Insertion Program	Project number unspecified	NA
		0603851D8Z - Environmental Security Technical Certification Program	Project number unspecified	NA
		Special Operations Command	R&D Contracts Not Linked to Specific Program Elements	(blank) 18.061
DOE	Energy Intelligence (NNSA/Other Nuclear Security Activity)	(blank)	(blank)	12.161
	Environmental Management (Defense Program)	Extramural awards	(blank)	0.360
		Science	(blank)	5.210

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
DOE	National Nuclear Security Administration (Weapons Activities) (re-organized in FY 2001)	Technology development	(blank)	84.863
		Fissile Materials Disposition (NNSA/Other Nuclear Security Activity)	(blank)	58.728
		Materials Support (Defense Program)	(blank)	0.890
		National Nuclear Security Administration (Weapons Activities) (re-organized in FY 2001)	Core research & advanced technology (Re-programmed in FY 2001)	148.149
		Extramural awards	(blank)	0.914
		Inertial confinement fusion (Re-programmed in FY 2001)	ICF core program (Re-programmed in FY 2001) National Ignition Facility (Re-programmed in FY 2001)	113.354 97.874
		Program management	(blank)	28.962
		Programs & initiatives (Re-programmed in FY 2001)	Other stockpile stewardship & related activities (Re-programmed in FY 2001) Special projects (Re-programmed in FY 2001)	2.500 0.158
		Technology partnerships & education (Re-programmed in FY 2001)	(blank)	82.081
		Naval Reactors Development (NNSA/Other Nuclear Security Activity)	Plant technology (includes equipment)	0.277
DOD	Nonproliferation & Verification (NNSA/Other Nuclear Security Activity)	Chemical & biological nonproliferation (included in Deterring prolif. until FY 1999) (incl equipment)	(blank)	1.543
		Deterring proliferation (included Chem/bio nonproliferation until FY 1999) (includes equipment)	(blank)	1.013
		Extramural awards	(blank)	0.093
	Nuclear Safeguards & Security (NNSA/Other Nuclear Security Activity)	Technology & systems development	(blank)	0.936
	Other Defense Activities (Defense Program)	(blank)	(blank)	116.700
	Uranium Programs	(blank)	(blank)	6.988
	DVA	Medical & Prosthetic Research	VA Medical Center - (Fresno, CA)	1.206
		VA Medical Center - (Livermore, CA)	(blank)	NA
		VA Medical Center - (Loma Linda, CA)	(blank)	32.054
		VA Medical Center - (Long Beach, CA)	(blank)	34.312
		VA Medical Center - (Los Angeles, OPC, CA)	(blank)	0.584
		VA Medical Center - (Palo Alto, CA)	(blank)	145.767
		VA Medical Center - (Pleasant Hill, CA)	(blank)	40.376
		VA Medical Center - (San Diego, CA)	(blank)	279.494
		VA Medical Center - (San Francisco, CA)	(blank)	173.179
		VA Medical Center - (Sepulveda, CA)	(blank)	49.953

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
		VA Medical Center - (West Los Angeles/Brentwood, CA)	(blank)	0.986
		VA Medical Center - (West Los Angeles/Wadsworth, CA)	(blank)	196.980
Grand Total				19,770.595

E. Electronics

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
DOC	National Institute of Standards & Technology	Advanced Technology Program	Advanced technology program	284.400
DOD	Defense Advanced Research Projects Agency	0602712E - Materials & Electronics Technology	Project number unspecified	NA
		0603739E - Advanced Electronics Technologies	MT-04 - Electronic Module Technology Project number unspecified	NA NA
	Dept of the Air Force	0602204F - Aerospace Sensors	2001 - Electro-Optical Technology 6096 - Microelectronics Technology	NA NA
		0603253F - Advanced Sensor Integration	3833 - Integrated Avionics for Aging Aircraft	NA
		0603270F - Electronic Combat Technology	431G - Radio Frequency (RF) Warning & Countermeasures	NA
	Dept of the Navy	0602234N - Materials and Radio Frequency/ Electric-Optics/ Infrared Electronics Technology	Project number unspecified	NA
		0602270N - Electronic Warfare Technology	Project number unspecified	NA
NASA	Aero-Space Technology (Aeronautical Research & Technology until FY01)	Research and technology base	Controls, guidance and human factors R&T (ended in FY 95)	0.048
	Commercial Technology (included Advanced Space Technology until FY01)	Spacecraft & remote sensing (ended in FY95)	Spacecraft systems technology (ended in FY95)	0.415
	Earth Science - Mission to Planet Earth (MTPE)	Earth observing system (EOS)	Technology infusion/Advanced Technology Initiative (Sensor & detector technology) Technology infusion/Instrument incubator	10.138 3.176
NSF	Engineering (ENG)	Civil & mechanical systems (CMS)	Sensor & information technology	0.708
		Electrical & communications systems (ECS)	Electrical & communications systems - Other Integrative systems Knowledge modeling & computational intelligence	0.280 8.470 7.997
			Physical foundations of enabling technologies	35.860
				351.492
Grand Total				

F. Energy

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
DOD	Corps of Engineers	Extramural awards	(blank)	2.727
DOE	Clean Coal Technology	Extramural awards	(blank)	20.176
		Laboratory tasks	(blank)	0.428
		Building Technology	General activities	73.532
	Energy Conservation	Extramural awards	(blank)	34.410
		Industry sector	Industries of the future/Crosscutting Industries of the future/Specific	4.563 5.815
		Transportation sector	Fuels utilization R&D Materials technology Vehicle technologies R&D	0.513 4.247 12.489
		Utility sector	Integrated resource planning	1.306
		Nuclear energy (NOTE: Level 4 amounts include funding for equipment)	Advanced radioisotope power system Advanced reactor Extramural awards Facilities operation Light water reactors Nuclear energy research initiative Space reactor power systems University reactor fuel assistance & support	9.311 0.185 0.747 37.260 22.832 1.020 0.817 NA
	Fossil Energy Research & Development	Advanced research (previously Coal - Advanced research & technology development)	Extramural awards General activities	0.895 2.401
		Central systems	Innovations for existing plants (previously Advanced research & environmental tech) Integrated gasified combined cycle	1.610 0.021
		Distributed generation systems/Fuel cells (previously Gas - Fuel cells)	Advanced research	0.002
		Extramural awards	(blank)	16.998
		Natural gas technologies (previously Gas - Natural gas research)	Effective environmental protection Emerging processing technology Exploration & production Infrastructure (previously Delivery and storage)	0.027 0.845 1.652 0.049
		Petroleum - Oil shale	(blank)	7.326
		Petroleum - Oil technology	Effective environmental protection Emerging processing technology applications Exploration & production	1.207 1.089 11.949

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
	Naval Reactors Development (NNSA/Other Nuclear Security Activity)	Plant technology (includes equipment)	(blank)	0.277
	Science	Advanced scientific computing research (formerly Computational & technology research)	Advanced energy projects - Research (In Basic energy sciences prior to FY97)	4.841
		Basic energy sciences (NOTE: Level 4 amounts include funding for equipment)	Applied mathematical sciences Chemical sciences -- Facilities operations Chemical sciences -- Research Energy biosciences Engineering & geosciences -- Engineering research Engineering & geosciences -- Geosciences research Extramural awards Materials sciences -- Facilities operations Materials sciences -- Research	113.492 86.299 64.056 4.592 1.116 25.623 568.183 205.924 207.958
		Energy research analyses	General activities	0.234
		Fusion energy (NOTE: Level 4 amounts include funding for equipment)	Enabling R&D - General Facilities operation Science - General	95.051 1.046 123.426
		High energy physics	Facilities operation Research & technology/High energy technology Research & technology/Physics research	525.467 29.749 390.235
		Multi-program energy laboratories support	(blank)	2.486
		Nuclear physics (NOTE: Level 4 amounts include funding for equipment)	Heavy ion nuclear physics Low energy nuclear physics Medium energy nuclear physics Nuclear theory	126.584 15.574 0.726 7.064
NRC	Management and support	(blank)	(blank)	4.012
	Nuclear Reactor Safety Research	Reactor and plant performance research	(blank)	1.196
Grand Total				2,883.661

G. Environmental Technologies

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
DOC	National Oceanic & Atmospheric Administration	National Environmental Satellite, Data, and Information Service	Satellite observing systems	6.474
		National Marine Fisheries Service	Fisheries development program Habitat conservation Information collection & analyses Protected species management State grants to assess status of fishery resources	1.954 1.027 1.809 1.087 2.896
		National Ocean Service	Ocean and coastal management Ocean Resources Conservation and Assesment	1.794 4.684
		National Weather Service	Operations and Research	0.406
		Oceanic and Atmospheric Research	Ocean and great lakes programs Office of the Assistant Administrator Sea grant program (part of Ocean & great lakes program)	0.275 15.474 27.034
		Program support (including aircraft services)	(blank)	41.413
DOD	Dept of the Air Force	0602206F - Civil Engineering & Environmental Quality	1900 - Environmental Quality Technology	NA
		0603723F - Environmental Engineering Technology	2103 - Environmental Quality Advanced Technology	NA
	Dept of the Army	0602720A - Environmental Quality Technology	A835 - Military Medical Environmental Criteria	NA
	Dept of the Navy	0602435N - Oceanographic & Atmospheric Technology	Project number unspecified	NA
		0603712N - Environmental Quality & Logistics Advanced Technology	Project number unspecified	NA
		0603721N - Environmental Protection	Y0817 - Pollution Abatement Ashore	NA
	Office of the Secretary of Defense	0603716D8Z - Strategic Environmental Research & development Program (SERDP)	P470 - Strategic Environmental Research and Development Program (SERDP)	NA
			Project number unspecified	NA
		0603851D8Z - Environmental Security Technical Certification Program	Project number unspecified	NA
DOE	Clean Coal Technology	Laboratory tasks	(blank)	0.428
	Energy Conservation	Building Technology	General activities	73.532
		Industry sector	Industries of the future/Crosscutting Industries of the future/Specific	4.563 5.815
		Transportation sector	Fuels utilization R&D Materials technology Vehicle technologies R&D	0.513 4.247 12.489
		Utility sector	Integrated resource planning	1.306

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
DOE	Energy Supply	Environment, safety & health	Laboratory tasks	27.286
		Solar & renewable energy (NOTE: Level 4 amounts include unexpended balances from prior years.)	Biopower/Biofuels energy systems - Power systems	6.808
			Concentrating solar power	0.013
			Electric energy systems/Electric & magnetic fields R&D	1.649
			Electric energy systems/Transmission reliability	7.527
			Extramural awards	362.325
			Geothermal energy	3.197
			Hydrogen research	7.578
			Hydropower development	0.010
			International solar energy program	0.463
DOE	Environmental Management (Defense Program)	Science	(blank)	5.210
		Technology development	(blank)	84.863
	Fissile Materials Disposition (NNSA/Other Nuclear Security Activity)	(blank)	(blank)	58.728
	Science	Biological & environmental research (NOTE: Level 4 amounts include funding for equipment)	Carbon dioxide research -- Information & integration	21.222
DOI	Geological Survey		Environmental processes - Atmospheric chemistry & carbon cycle	22.392
			Environmental processes - Climate & hydrology	3.184
			Environmental processes -- Ecological processes	0.613
			Environmental processes - Human interactions	0.292
			Environmental remediation -- Bioremediation research	1.979
			Environmental remediation -- Clean-up research	1.551
			Measurement science	6.128
		(blank)	(blank)	0.011
		Biological cooperative research units (Individual funding amounts are listed separately under each contributing program.)	(blank)	NA
		Extramural awards for geological surveys-research & data acquisition	(blank)	16.334
		Natural disaster reduction	Earthquake hazards	34.836

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
		Water resources-Coastal/Marine environment	Water resources research act program	0.495
EPA	R&D Contracts	(blank)	(blank)	17.878
HHS	Centers for Disease Control and Prevention	Natl Ctr for Environmental Health Natl Institute for Occupational Safety & Health	Extramural awards NIOSH Extramural awards	0.888 13.504
	National Institutes of Health	National Institute of Environmental Health Sciences	Applied toxicological research and testing (includes training) Biological response to environmental agents (includes training) Biometry and risk estimation (includes training) NIEHS resource & manpower development (includes training) R&D Contracts Superfund research program (Funded by EPA)	8.807 72.683 7.098 25.742 0.385 31.607
NASA	Aero-Space Technology (Aeronautical Research & Technology until FY01)	Ultra-efficient engine technology	(blank)	1.587
	Earth Science - Mission to Planet Earth (MTPE)	Advanced geostratinary studies Airborne science & applications program Earth observing system (EOS) Earth probes development	(blank) (blank) Algorithm development Aqua (PM Series) Chemistry Landsat 7 QuikScat Special spacecraft Technology infusion/Advanced Technology Initiative (Sensor & detector technology) Technology infusion/Instrument incubator Terra (AM Series) Earth system science pathfinders (ESSP) (includes equipment) NASA scatterometer (NSCAT) (includes equipment) (ended in FY96) Total ozone mapping spectrometer (TOMS) (includes equipment) Triana (includes equipment) Tropical rainfall measuring mission (TRMM) (includes equipment)	314.905 39.885 19.489 139.717 8.470 57.492 20.974 4.443 10.138 3.176 210.763 0.847 0.078 69.528 4.765 34.188 52.630 54.067
		EOS data information system (EOSDIS)	(blank)	
		EOS science	(blank)	

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
		GLOBE (Global observations to benefit the environment)	(blank)	1.995
NSF	Biological Sciences (BIO)	Environmental biology (DEB)	Ecological studies Environmental biology - Other Systematic & population biology	38.782 0.745 21.192
	Engineering (ENG)	Bioengineering & environmental systems (BES)	Environmental & ocean engineering & technology	5.967
	Geosciences (GEO)	Atmospheric sciences (ATM) (includes equipment)	Aeronomy	8.021
			Atmospheric chemistry	15.277
			Atmospheric sciences - Other	9.070
			Climate dynamics	9.046
			Large-scale dynamic meteorology	3.781
			Magnetospheric physics	9.717
			Mesoscale dynamic meteorology	2.198
			National Center for Atmospheric Research & related facilities (includes equipment)	15.809
			Paleoclimate	1.120
	U.S. Polar Research Programs (O/D, DPP, OPP)	Earth sciences (EAR) (includes equipment)	Physical meteorology	1.820
			Solar-terrestrial	9.307
			Continental dynamics	12.472
			Earth sciences - Other	0.135
			Education & human resources	3.487
			Geology & paleontology	12.843
			Geophysics (including Earthquakes)	30.531
			Hydrologic sciences	3.218
			Petrology & geochemistry	17.171
			Tectonics	10.985
		Ocean sciences (OCE) (includes equipment)	Biological oceanography	28.843
			Chemical oceanography	13.352
			International & special programs	0.271
			Marine geology & geophysics	24.918
			Ocean - Other	0.354
			Ocean drilling	6.505
			Ocean technology & interdisciplinary coordination	9.473
			Physical oceanography	34.991
		U.S. Antarctic Research Grants Program (includes equipment)	Ocean & climate	3.365
USDA	Agriculture Research Service	Research on soil, water, and air sciences	Extramural awards	NA
			U.S. Salinity Laboratory (CA/Riverside)	NA
			Water Management Research Laboratory (CA/Fresno)	NA

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
	Alternative Agriculture Research & Commercialization Corporation	(blank)	(blank)	0.855
	Cooperative State Research, Education & Extension Service	Sustainable agriculture program	(blank)	1.913
	Forest Service	Forest & rangeland research	Pacific Southwest Research Station /Albany, CA	
Grand Total				2,479.658

H. Life Sciences/Biotechnology

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
DOD	Chemical & Biological Defense Program	0601384BP - Chemical & Biological Defense Program	TC1 - Medical Chemical Defense	NA
	Dept of the Army	0601102A - Defense Research Sciences	BS12 - Science Base/Medical Biological Defense	NA
			BS14 - Science Base/Combat Casualty Care Research	NA
			BS15 - Science Base/Army Operational Medicine Research	NA
			Project number unspecified	NA
		0602787A - Medical Technology	A838 - Neutrotoxin Exposure Treatment	NA
			A839 - Computer-Assisted Sig	NA
			A845 - Bone Disease Research	NA
			A870 - DoD Medical Defense Against Infectious Diseases	NA
			A872 - Neurofibromatosis Research	NA
			A874 - Combat Casualty Care Technology	NA
		0603002A - Medical Advanced Technology	A878 - Health Hazards of Military Materiel	NA
			A920 - Prostate Cancer Research	NA
			Project number unspecified	NA
		0603105A - Military HIV Research	D801 - Defense Women's Health Research	NA
			D804 - Prostate Cancer Research	NA
		0603308A - Army Missile Defense System Integration - Dem/Val	D806 - Breast Cancer Research	NA
			D810 - Industrial Base/Infectious Disease Vaccines and Drugs	NA
			D814 - Neurofibromatosis	NA
			D840 - Combat Injury Management	NA
			Project number unspecified	NA
	Dept of the Navy	0603706N - Medical Development	Project number unspecified	NA
	Office of the Secretary of Defense	0602227D8Z - Medical Free Electron Laser	Project number unspecified	NA
DOE	Science	Biological & environmental research (NOTE: Level 4 amounts include funding for equipment)	Life sciences - Health effects	24.484
			Life sciences -- Human genome	143.130
			Life sciences -- Molecular & cellular biology	17.490
			Life sciences -- Structural biology	37.174
			Medical applications -- Radioisotope development	14.086
DVA	Medical & Prosthetic Research	VA Medical Center - (Fresno, CA)	(blank)	1.206

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
		VA Medical Center - (Livermore, CA)	(blank)	NA
		VA Medical Center - (Loma Linda, CA)	(blank)	32.054
		VA Medical Center - (Long Beach, CA)	(blank)	34.312
		VA Medical Center - (Los Angeles, OPC, CA)	(blank)	0.584
		VA Medical Center - (Palo Alto, CA)	(blank)	145.767
		VA Medical Center - (Pleasant Hill, CA)	(blank)	40.376
		VA Medical Center - (San Diego, CA)	(blank)	279.494
		VA Medical Center - (San Francisco, CA)	(blank)	173.179
		VA Medical Center - (Sepulveda, CA)	(blank)	49.953
		VA Medical Center - (West Los Angeles/Brentwood, CA)	(blank)	0.986
HHS	Centers for Disease Control and Prevention	VA Medical Center - (West Los Angeles/Wadsworth, CA)	(blank)	196.980
		Natl Ctr for Chronic Disease Prevention & Health Promotion	(blank)	2.199
		Natl Ctr for HIV/STD/TB Prevention	(blank)	21.032
		Natl Ctr for Infectious Diseases	Extramural awards	8.169
		Natl Ctr for Injury Prevention & Control	(blank)	16.324
	National Institutes of Health	R&D Contracts	(blank)	27.671
		John E. Fogarty International Center	AIDS Research International research activities (includes training)	0.536 19.853
		National Cancer Institute	AIDS Research Cancer biology, detection & diagnosis (includes training) Cancer causation (includes training) Cancer prevention & control (includes training) Cancer Research Centers Cancer treatment (includes training) Director's office NCI research manpower development (includes training)	37.081 422.875 399.437 57.009 112.826 472.064 72.939 62.548
		National Center for Complementary and Alternative Medicine	Complementary & alternative medicine (in Office of Director prior to FY 1999)	2.324
		National Center for Research Resources	AIDS Research Biomedical research support (extramural) Biotechnology (extramural/includes training) Comparative medicine/Biological models & materials (extramural/includes training) NCRR clinical research Other research Research centers in minority institutions	52.796 11.891 74.571 59.417 128.054 2.338 33.250

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
		National Eye Institute	AIDS Research Vision research (extramural/includes training)	3.534 272.128
		National Heart, Lung & Blood Institute	AIDS Research Blood diseases & resources (extramural/includes training) Epidemiology and clinical applications Heart & vascular diseases (extramural/includes training) Lung diseases (extramural/includes training) Women's Health Initiative	10.893 241.313 8.214 546.188 188.320 11.820
		National Human Genome Research Institute	Extramural awards (includes training)	187.281
		National Inst of Deafness & Other Communicative Disorders	AIDS Research Deafness & other communication disorders (extramural/includes training)	1.490 100.921
		National Institute for Nursing Research	AIDS Research Extramural awards (includes training)	6.092 35.128
		National Institute of Allergy & Infectious Diseases	AIDS Research Allergy, immunology & transplantation (extramural/includes training) Microbiology & infectious diseases (extramural/includes training) R&D Contracts	236.299 243.008 350.287 28.732
		National Institute of Arthritis, Musculoskeletal & Skin Diseases	Arthritis & musculoskeletal & skin diseases (extramural/includes training)	194.242
		National Institute of Child Health & Human Development	AIDS Research Medical rehabilitation research (extramural/includes training) Population research (extramural/includes training) R&D Contracts Research for mothers & children (extramural/includes training)	24.052 7.435 136.323 14.125 234.392
		National Institute of Dental and Craniofacial Research	AIDS Research Oral diseases & disorders (extramural/includes training)	6.761 105.529
		National Institute of Diabetes & Digestive & Kidney Diseases	AIDS Research Diabetes, endocrinology & metabolism (extramural/includes training)	14.407 255.242

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
			Digestive diseases & nutrition (extramural/includes training)	151.596
			Kidney disease, urology & hematology (extramural/includes training)	112.116
			R&D Contracts	1.808
		National Institute of General Medical Sciences	AIDS Research	23.213
			Biomedical research (extramural/includes training)	1,050.703
			Minority opportunities in research (extramural/includes training)	75.728
			R&D Contracts	0.000
		National Institute of Mental Health	AIDS Research	136.966
			Extramural awards (includes training)	468.489
		National Institute of Neurological Disorders & Stroke	AIDS Research	12.074
			Extramural research (includes training)	531.584
			R&D Contracts	7.952
		National Institute on Aging	Aging research (extramural/includes training)	447.180
			AIDS Research	1.916
		National Institute on Alcohol Abuse & Alcoholism	AIDS Research	8.019
			Alcohol biomedical & behavioral research (extramural/includes training)	143.055
		National Institute on Drug Abuse	AIDS Research	54.095
			Drug abuse & addiction (extramural/includes training)	229.669
		National Library of Medicine	AIDS Research	2.490
			Extramural awards (includes training)	28.642
			R&D Contracts	10.119
			Academic Research Enhancement Award Program	0.790
		Office of the Director	Advanced human support technologies (included Biores & counter prior to FY98)	21.805
			Biomedical research & countermeasures (in Adv human suport tech prior to FY98)	16.812
			Fundamental biology (Gravitational biology & ecology research until FY01)	13.237
			Space station utilization	0.096
		Biological Sciences (BIO)	Biological infrastructure (BIR/DBI) (includes equipment)	4.494
			Human resources	6.329
			Research resources	31.047
			Environmental biology (DEB)	38.782
			Ecological studies	

Level 1	Level 2	Level 3	Level 4	Total (\$Million)	
NSF	Biology	Environmental biology - Other	Environmental biology - Other	0.745	
			Systematic & population biology	21.192	
		Integrative biology & neuroscience (IBN)	Developmental mechanisms	24.170	
			Neuroscience	27.766	
			Physiology & ethology	26.680	
	Molecular & cellular biosciences (MCB)	Biochemical & biomolecular processes	Biochemical & biomolecular processes	14.147	
			Biomolecular structure & function	34.025	
			Cell biology	13.970	
	Plant genome research (BIR/DBI)		Genetics	32.601	
			Molecular & cellular biosciences - Other	0.166	
Engineering	Engineering (ENG)	Bioengineering & environmental systems (BES)	Plant genome research project	17.219	
			Biochemical & biomass engineering/Biotechnology	9.273	
	U.S. Polar Research Programs (O/D, DPP, OPP)	U.S. Antarctic Research Grants Program (includes equipment)	Biomedical engineering/Research to aid the disabled	3.883	
			Biology & medicine	16.976	
USDA	Agriculture Research Service	Research on animal sciences	Extramural awards	NA	
		Research on human nutrition	Extramural awards Western Human Nutrition Research Center (CA/Davis)(transferred from San Francisco, CA, in 2000)	NA NA	
		Research on plant sciences	ARS Research Facility at U of CA at Davis (CA/Davis) Crop Improvement and Protection Research Unit (CA/Salinas) Extramural awards National Clonal Germplasm Repository for Citrus (CA/Riverside) Plant Gene Expression Center (CA/Albany) USDA Horticultural Crops Research Laboratory (CA/Fresno) Western Integrated Cropping Systems Research Unit (CA/Shafter) WRRC/Plant Protection Research Unit (CA/Albany)	NA NA NA NA NA NA NA NA NA	
		Cooperative State Research, Education & Extension Service	Animal health & disease research (Section 1433)	CA - California	
				3.136	
Grand Total				10,629.366	

I. Telecommunications

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
DOC	National Telecommunications & Information Administration	Technology opportunity grants	(blank)	12.154
DOD	Defense Advanced Research Projects Agency	0602301E - Computing Systems & Communications Technology	Project number unspecified	NA
		0602708E - Integrated Command & Control Technology	Project number unspecified	NA
		0603760E - Command, Control and Communications Systems	Project number unspecified	NA
	Dept of the Air Force	0602702F - Command, Control & Communications	2338 - Reliability Sciences Technology 4519 - Communications Technology 4594 - Information Technology 4600 - Electromagnetic Technology 5581 - Command and Control (C2) Technology Project number unspecified	NA NA NA NA NA
		0603742F - Combat Identification Technology	2597 - Non-Cooperative Identification Subsystems	NA
		0604740F - Integrated Command & Control Applications (IC2A)	Project number unspecified	NA
		0602232N - Communications, Command and Control, Intel, Surveillance	Project number unspecified	NA
		0602234N - Materials and Radio Frequency/ Electric-Optics/ Infrared Electronics Technology	Project number unspecified	NA
NASA	Commercial Technology (included Advanced Space Technology until FY01)	Other	Advanced smallsat technology (FYs 94 & 95 only)	70.456
		Spacecraft & remote sensing (ended in FY95)	Autonomy & operations (ended in FY95) Space communications (ended in FY95) Spacecraft systems technology (ended in FY95)	5.797 0.050 0.415
	Earth Science - Mission to Planet Earth (MTPE)	Commercial remote sensing program (CRSP)	(blank)	1.098
		High performance computing & communications (HPCC)	(blank)	16.902
	Mission Communication Services	(blank)	(blank)	7.728
	Space Communication Services (FY95 only)	Launch services (FY 95 only)	(blank)	85.652
NSF	Computer & Information Science & Engineering (CISE/CSE)	Advanced networking infrastructure & research (ANI) (includes equipment)	Advanced networking infrastructure (includes equipment) Advanced networking research	21.753 13.493

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
			NSFNET (includes equipment)	14.603
			Special projects	4.589
	Computer-communications research (CCR)	Communications research	7.934	
		Computer-communications research - Other	0.039	
Engineering (ENG)	Electrical & communications systems (ECS)	Electrical & communications systems - Other	0.280	
Grand Total				262.943

J. Transportation

Level 1	Level 2	Level 3	Level 4	Total (\$Million)
DOD	Defense Logistics Agency	0708011S - Industrial Preparedness	Project number unspecified	NA
	Dept of the Navy	0602121N - Ship, Submarine & Logistics Technology	Project number unspecified	NA
DOE	Energy Conservation	Transportation sector	Fuels utilization R&D Materials technology Vehicle technologies R&D	0.513 4.247 12.489
	Fossil Energy Research & Development	Distributed generation systems/Fuel cells (previously Gas - Fuel cells)	Advanced research	0.002
DOT	Coast Guard	R&D Contracts	(blank)	0.132
	Federal Aviation Administration	Innovative/Cooperative research	(blank)	25.425
		R&D Contracts	(blank)	5.971
	Federal Highway Administration	R&D Contracts	(blank)	32.126
	Federal Railroad Administration	R&D Contracts	(blank)	0.131
	National Highway Traffic Safety Administration	R&D Contracts	(blank)	0.626
	Research & Special Programs Administration	Pipeline safety	(blank)	28.839
		R&D Contracts	(blank)	30.859
		Research & technology	(blank)	11.100
Grand Total				152.458

K. Other

Level 1	Level 2	Level 3	Level 4	Total
DED	Bilingual Education	(blank)	(blank)	2.811
	Education, research, statistics & improvement	Educational Research and Improvement	(blank)	59.410
		Gifted & Talented	(blank)	1.069
	Higher Education	Fund for the Improvement of Postsecondary Education (FIPSE)	(blank)	9.938
		International Education & Foreign Language Studies	(blank)	1.337
	R&D Contracts	(blank)	(blank)	30.455
	Rehabilitation Services	(blank)	(blank)	58.858
	Special Education	(blank)	(blank)	6.720
	Vocational & Adult Education	(blank)	(blank)	35.891
DOC	Economic Development Administration	(blank)	(blank)	0.687
DOE	Science	University & science education	Laboratory science cooperative science ctrs University programs University research instrumentation	16.761 0.000 0.885
DOJ	Office of Justice Programs (includes the National Institute of Justice)	Justice assistance	(blank)	5.624
		Juvenile justice	(blank)	2.337
DOL	Employment and Training Administration	(blank)	(blank)	6.575
HHS	Administration for Children & Families	Children and families services programs	(blank)	7.732
	Administration on Aging	(blank)	(blank)	7.420
	Agency for Healthcare Research and Quality (formerly Agency for Health Care Policy and Research)	(blank)	(blank)	122.653
	Assistant Secretary for Health	(blank)	(blank)	3.450
	Health Care Financing Administration	(blank)	(blank)	63.292
	Health Resources & Services Administration	Research Centers	(blank)	67.618
HUD	Policy Development and Research	(blank)	(blank)	0.788
NSF	Education & Human Resources (EHR)	Education & human resources - Other (estimate)	R&D activities	11.612
		Research, evaluation & communication (REC/RED) (estimate)	R&D activities	26.447
	Geosciences (GEO)	Earth sciences (EAR) (includes equipment)	Continental dynamics Earth sciences - Other Education & human resources Geology & paleontology Geophysics (including Earthquakes) Hydrologic sciences	12.472 0.135 3.487 12.843 30.531 3.218

Level 1	Level 2	Level 3	Level 4	Total
			Petrology & geochemistry Tectonics	17.171 10.985
		Ocean sciences (OCE) (includes equipment)	Chemical oceanography International & special programs Marine geology & geophysics Ocean - Other Ocean drilling Ocean technology & interdisciplinary coordination Physical oceanography	13.352 0.271 24.918 0.354 6.505 9.473 34.991
Social, Behavioral & Economic Sciences (SBE)		Behavioral & cognitive sciences (BCS) (includes equipment)	Archaeology, archeometry & systemic anthropological collections Behavioral & cognitive sciences - Other Cultural anthropology Geography & regional science Human cognition & perception Linguistics Physical anthropology Social psychology	5.890 0.485 3.294 8.966 9.336 8.112 2.325 7.262
		International cooperative scientific activities (INT) (Includes equipment)	Africa, Near East & South Asia Americas Central & Eastern Europe East Asia & Pacific International activities - Other Japan & Korea Western Europe	0.407 0.953 0.748 1.423 1.193 1.647 1.590
		Social & economic sciences (SES) (includes equipment)	Decision, risk & management science Economics Ethics & values studies Innovation & organizational change Law & social science Methodology, measures & statistics Political science Research on science & technology Science & technology studies Social & economic sciences - Other Sociology Transformations to quality organizations	5.009 17.000 1.421 0.098 2.476 3.951 4.399 0.365 1.560 0.555 4.391 0.983
U.S. Polar Research Programs (O/D, DPP, OPP)		U.S. Antarctic Research Grants Program (includes equipment)	Antarctic Sciences - Other Geology & geophysics Glaciology	0.500 3.016 3.707

Level 1	Level 2	Level 3	Level 4	Total
		U.S. Arctic Research Program (includes equipment)	Arctic Sciences - Other Natural sciences Social sciences System sciences	3.619 4.081 0.039 8.793
SSA	Social security R&D (obligations starting in FY98)	(blank)	(blank)	1.661
USDA	Agricultural Marketing Service	(blank)	(blank)	0.566
	Agriculture Research Service	Agricultural library services	(blank)	0.153
		Extramural awards	(blank)	0.867
		Headquarters, ARS Administration (Program/Admin. Management) (DC/Washington)	(blank)	
		Research in integration of agricultural systems & research support (including area management)	Extramural awards	
		Research on commodity, conversion, and delivery	Extramural awards WRRRC/Cereal Product Utilization Research Unit (CA/Albany) WRRRC/Crop Improvement & Utilization Research Unit (CA/Albany) WRRRC/Food Safety and Health Research Unit (CA/Albany) WRRRC/Process Chemistry and Engineering Unit (CA/Albany)	
	Animal & Plant Health Inspection Service	Extramural awards	(blank)	11.937
	Cooperative State Research, Education & Extension Service	[Small business innovative research]	(blank)	2.480
		McIntire-Stennis cooperative forestry	CA - California	4.041
		National research initiative	Extramural awards	53.270
		Payments under the Hatch Act	CA - California	31.423
		Special research grants	(blank)	30.747
	Foreign Agricultural Service	(blank)	(blank)	2.405
	Fund for Rural America	(blank)	(blank)	1.495
Grand Total				991.712

IX. California's Unclassified R&D Funding Trends (1993-99), by Technology Sector

A. Aggregated State-wide Trends (1993-99 Unclassified R&D)

Technology Sector	1993	1994	1995	1996	1997	1998	1999	Technology Sector Total
Advanced Computing	82.049	95.821	151.054	137.155	182.099	301.519	271.009	1,220.706
Advanced materials	123.488	159.004	180.625	158.349	167.091	202.323	192.982	1,183.863
Aerospace	2,566.926	2,604.797	1,913.245	1,931.811	1,710.775	1,755.861	1,694.584	14,177.999
Defense	2,090.904	2,672.504	3,050.330	2,925.317	3,146.403	3,008.591	2,876.546	19,770.595
Electronics	13.076	18.359	46.197	44.174	56.416	90.644	82.626	351.492
Energy	488.600	599.046	436.108	387.220	331.695	320.759	320.233	2,883.661
Environmental Technologies	275.222	351.121	361.901	347.421	369.541	378.484	395.968	2,479.658
Life Sciences/Biotechnology	1,082.326	1,273.122	1,358.617	1,453.241	1,444.566	1,497.334	2,520.159	10,629.366
Telecommunications	39.131	35.746	39.573	39.698	40.883	42.309	25.603	262.943
Transportation	11.817	16.436	20.685	16.909	22.276	30.505	33.830	152.458
Other	106.256	136.709	152.160	152.192	145.908	145.681	152.806	991.712
Fiscal Year Total:	6,879.797	7,962.665	7,710.495	7,593.487	7,617.653	7,774.010	8,566.347	54,104.453

B. Advanced Computing Sector (1993-99 Unclassified R&D)

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	County Total
1	Alameda	18.481	20.371	24.126	23.520	44.637	94.650	96.900	322.685
2	San Diego	24.325	24.619	49.146	33.239	38.003	76.795	56.411	302.538
3	Santa Clara	12.228	15.038	26.888	26.245	37.386	52.318	50.042	220.146
4	Los Angeles	15.738	22.192	25.518	28.912	33.046	40.558	32.402	198.366
5	Santa Barbara	3.878	5.311	6.285	6.089	6.626	7.210	7.692	43.089
6	San Mateo	1.402	2.155	5.198	5.207	5.636	10.684	9.675	39.957
7	San Francisco	0.367	0.466	3.447	3.460	3.222	4.497	4.437	19.896
8	Orange	1.313	1.307	2.076	2.116	2.721	4.108	4.405	18.047
9	Yolo	1.202	1.275	1.522	1.301	1.668	2.160	2.172	11.300
10	San Bernardino	1.728	0.793	1.305	1.392	1.339	1.346	1.245	9.148
11	Santa Cruz	1.067	1.035	1.312	1.100	1.136	1.040	1.328	8.019
12	Contra Costa	0.016	0.016	1.058	1.052	2.204	2.204	1.194	7.743
13	Sacramento		0.050	1.065	1.198	1.868	1.920	1.629	7.730
14	Ventura		0.614	1.169	1.380	1.437	0.937	0.211	5.747
15	Riverside		0.237	0.242	0.320	0.169	0.308	0.272	0.460
16	Sonoma			0.235	0.235	0.341	0.481	0.341	0.356
17	Napa				0.157	0.157	0.207	0.207	0.207
18	Monterey		0.035	0.053	0.102	0.099	0.086	0.106	0.131
19	San Luis Obispo					0.054	0.069	0.152	0.114
20	Siskiyou				0.060	0.068	0.008		0.143
21	Butte			0.020	0.027	0.027	0.007		0.080
22	Kern		0.019	0.005	0.015	0.015			0.055
23	Fresno		0.012	0.013	0.013				0.037
24	Mendocino				0.009	0.009	0.009		0.028
25	Humboldt					0.007	0.007	0.007	0.020
	Fiscal Year Total:	82.049	95.821	151.054	137.155	182.099	301.519	271.009	1,220.706

C. Advanced Materials Sector (1993-99 Unclassified R&D)

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	County Total
1	Alameda	67.273	92.800	85.023	68.663	69.055	72.431	72.035	527.279
2	Santa Clara	10.089	15.719	27.250	26.072	34.639	50.660	48.941	213.371
3	Los Angeles	22.599	24.434	26.461	23.227	20.443	31.363	27.591	176.118
4	San Diego	7.602	8.311	13.594	12.632	15.317	16.924	14.492	88.872
5	Santa Barbara	9.931	9.447	9.160	9.684	9.040	5.687	5.268	58.216
6	Orange	2.000	2.223	4.603	4.179	4.030	4.959	5.314	27.308
7	San Mateo	0.089	0.590	2.993	2.993	3.018	7.206	7.809	24.699
8	Yolo	2.300	3.182	3.142	2.544	2.072	3.026	3.056	19.323
9	San Francisco	0.173	0.187	2.854	2.844	2.855	3.654	3.757	16.324
10	Contra Costa	0.012	0.012	1.000	1.009	2.168	2.168	1.160	7.530
11	Riverside	0.625	0.811	1.138	1.066	0.938	1.020	1.022	6.619
12	San Bernardino	0.002		1.238	1.238	1.238	1.238	1.248	6.201
13	Ventura	0.198	0.696	1.000	1.000	1.000	0.500	0.071	4.464
14	Santa Cruz	0.390	0.525	0.448	0.504	0.424	0.587	0.621	3.500
15	Sacramento			0.633	0.633	0.671	0.671	0.380	2.989
16	Monterey			0.025	0.060	0.055	0.092	0.072	0.339
17	San Luis Obispo					0.073	0.073	0.102	0.249
18	Solano	0.164							0.164
19	Kern						0.062	0.062	0.124
20	San Joaquin	0.041	0.041	0.012		0.012			0.106
21	Humboldt						0.016	0.016	0.033
22	Stanislaus				0.006	0.006	0.006		0.018
	<i>Not Specified</i>				0.017				0.017
	Fiscal Year Total:	123.488	159.004	180.625	158.349	167.091	202.323	192.982	1,183.863

D. Aerospace Sector (1993-99 Unclassified R&D)

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	County Total
1	Los Angeles	1,979.072	1,988.440	1,231.853	1,265.708	1,096.695	1,146.670	1,076.826	9,785.265
2	Orange	320.248	312.146	319.200	319.564	306.364	298.683	295.786	2,171.990
3	Santa Clara	148.195	154.884	208.557	198.052	151.557	147.437	163.940	1,172.622
4	Santa Barbara	41.584	51.037	51.528	47.123	49.469	50.494	44.217	335.454
5	Alameda	34.762	36.824	35.900	36.275	33.725	35.763	35.783	249.030
6	San Diego	22.943	25.015	27.780	23.543	26.859	26.551	28.995	181.687
7	San Mateo	3.669	16.879	17.360	16.401	17.190	18.449	18.331	108.279
8	Sacramento	5.677	6.139	3.847	6.259	6.869	6.195	3.936	38.922
9	San Francisco	1.727	2.255	2.877	2.677	3.054	3.498	3.787	19.875
10	Kern	2.224	1.954	3.281	3.490	2.438	2.396	3.750	19.533
11	Yolo	1.370	1.825	2.426	2.352	2.240	3.430	3.597	17.239
12	San Bernardino	0.273	0.206	0.351	1.985	3.427	5.589	4.889	16.719
13	Santa Cruz	1.613	1.671	2.241	2.405	2.543	2.916	3.040	16.429
14	Ventura	1.399	1.831	1.677	1.809	2.403	2.296	1.771	13.186
15	Monterey	0.503	1.744	1.641	1.383	2.307	2.580	2.247	12.403
16	Riverside	0.826	0.681	1.236	1.132	1.818	1.301	1.791	8.784
17	Sonoma	0.181	0.644	0.503	0.523	0.677	0.405	0.488	3.421
18	San Luis Obispo	0.262	0.305	0.374	0.305	0.319	0.316	0.386	2.266
19	Contra Costa	0.039	0.039	0.148	0.247	0.143	0.238	0.344	1.199
20	Fresno	0.034	0.034	0.048	0.206	0.206	0.281	0.150	0.958
21	Napa			0.157	0.157	0.207	0.207	0.207	0.935
22	Placer		0.073	0.073	0.073	0.073	0.073	0.073	0.441
23	Butte		0.020	0.020	0.070	0.050		0.200	0.360
24	Solano	0.227				0.050	0.050		0.327
25	Marin	0.072	0.072	0.095	0.039	0.017	0.017		0.312
26	Kings		0.051	0.051	0.026	0.041	0.015	0.015	0.199
27	Humboldt			0.008	0.008	0.021	0.013	0.004	0.053
28	Tehama	0.026	0.026						0.051
29	Mariposa			0.014		0.014		0.032	0.032
30	San Joaquin								0.028
	Fiscal Year Total:	2,566.926	2,604.797	1,913.245	1,931.811	1,710.775	1,755.861	1,694.584	14,177.999

E. Defense Sector (1993-99 Unclassified R&D)

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	County Total
1	Los Angeles	993.696	1,279.420	1,421.386	1,425.994	1,561.946	1,423.166	1,536.039	9,641.647
2	San Diego	269.439	327.511	412.898	461.096	502.496	547.488	497.717	3,018.645
3	Santa Clara	301.046	385.138	426.934	431.863	437.970	415.652	286.465	2,685.067
4	Orange	295.324	299.101	311.291	311.669	317.828	296.819	262.806	2,094.838
5	Alameda	57.940	184.846	263.109	103.700	114.589	111.881	99.017	935.082
6	Santa Barbara	41.103	47.600	58.550	66.673	65.224	62.302	49.635	391.088
7	San Mateo	38.271	38.037	39.923	32.614	37.249	36.802	28.545	251.441
8	San Francisco	19.583	25.491	25.579	27.048	33.772	40.175	49.666	221.314
9	Ventura	23.657	34.526	31.986	23.168	27.516	24.276	22.060	187.190
10	Sacramento	7.344	8.857	13.403	10.771	11.808	12.516	8.220	72.919
11	Contra Costa	5.202	5.358	6.625	12.031	12.637	14.741	14.867	71.462
12	Kern	21.112	21.163	20.789	0.365	0.314	0.347	0.790	64.880
13	San Bernardino	8.355	6.198	5.352	5.806	6.538	7.244	8.084	47.577
14	Riverside	3.405	3.807	5.094	5.650	7.800	6.174	5.204	37.134
15	Santa Cruz	0.100	0.588	1.680	2.351	2.128	2.765	1.957	11.568
16	Sonoma	0.326	0.690	1.123	1.271	1.381	0.827	1.193	6.810
17	Monterey	0.269	0.218	0.911	1.016	1.495	1.235	0.781	5.925
18	San Joaquin	1.699	1.699	1.699		0.320	0.320		5.735
19	Yolo	0.706	0.908	0.860	0.716	1.011	0.894	0.382	5.477
20	San Luis Obispo	0.127	0.671	0.577	0.577	0.749	0.522	0.865	4.087
21	Marin	1.702	0.025	0.026	0.091	0.324	0.619	0.541	3.328
22	Fresno	0.160	0.152	0.133	0.165	0.176	0.967	0.935	2.688
23	Lake				0.035	0.360	0.325	0.325	1.045
24	Inyo	0.026	0.026	0.050	0.298	0.248	0.248		0.896
25	Napa	0.169	0.120	0.108		0.019	0.144	0.125	0.683
26	Placer	0.024	0.159	0.135	0.135	0.135			0.589
27	Solano		0.039	0.039		0.065	0.065	0.107	0.314
28	Tuolumne	0.122	0.122					0.050	0.293
29	Stanislaus				0.049	0.064	0.015	0.143	0.270
30	San Benito		0.037	0.037	0.082	0.082			0.237
31	Yuba				0.050	0.050			0.099
32	Mendocino			0.033	0.033				0.065
33	El Dorado						0.031	0.031	0.062
34	Siskiyou					0.031	0.031		0.062
35	Butte	NA	NA	NA	NA	NA	NA		NA
36	Humboldt				NA	NA	NA		NA
	<i>Not Specified</i>	NA	NA	NA	NA	0.079	NA	NA	0.079
	Fiscal Year Total:	2,090.904	2,672.504	3,050.330	2,925.317	3,146.403	3,008.591	2,876.546	19,770.595

F. Electronics (1993-99 Unclassified R&D)

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	County Total
1	Santa Clara	5.679	7.781	19.306	19.745	28.246	43.978	42.138	166.873
2	San Diego	3.079	3.424	8.601	7.760	11.210	12.012	9.791	55.877
3	Los Angeles	1.960	3.488	4.202	2.988	2.345	12.141	11.816	38.941
4	San Mateo	0.005	0.819	3.222	3.222	3.229	7.417	6.144	24.058
5	Alameda	1.227	1.186	2.590	2.359	2.191	4.238	3.961	17.754
6	San Francisco			2.604	2.639	2.639	3.453	3.453	14.788
7	Contra Costa			1.000	1.000	2.160	2.160	1.160	7.479
8	San Bernardino			1.238	1.238	1.238	1.238	1.238	6.189
9	Santa Barbara	0.567	0.590	0.724	0.710	0.697	0.783	0.851	4.922
10	Orange	0.154	0.180	0.635	0.619	0.464	1.637	1.208	4.896
11	Ventura	NA	0.500	1.000	1.000	1.000	0.500	NA	4.000
12	Sacramento			0.633	0.633	0.633	0.633	0.342	2.874
13	Yolo	0.286	0.187	0.237	0.220	0.275	0.304	0.371	1.881
14	Santa Cruz	0.119	0.119	0.119		0.061	0.061		0.479
15	San Luis Obispo		0.085	0.085		0.049	0.049	0.053	0.322
16	Riverside				0.040	0.040	0.040	0.040	0.160
	Fiscal Year Total:	13.076	18.359	46.197	44.174	56.416	90.644	82.626	351.492

G. Energy Sector (1993-99 Unclassified R&D)

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	County Total
1	Alameda	177.057	283.601	253.415	207.136	153.227	141.178	131.911	1,347.525
2	San Mateo	211.146	211.184	92.541	92.318	92.027	92.410	94.393	886.018
3	Los Angeles	48.276	48.951	29.752	30.721	29.699	26.940	27.142	241.482
4	San Diego	13.716	13.681	18.297	17.198	17.092	17.092	17.709	114.784
5	Yolo	11.684	11.955	12.183	12.347	12.053	13.265	13.818	87.306
6	Santa Clara	5.823	6.657	7.174	8.132	7.899	9.169	13.553	58.407
7	Orange	8.895	9.275	9.257	4.404	4.525	4.348	5.411	46.114
8	Santa Barbara	3.117	4.090	4.046	4.628	4.231	4.177	3.988	28.276
9	Santa Cruz	3.477	3.380	3.471	3.489	3.489	3.748	3.837	24.891
10	Sacramento	0.761	0.768	3.841	4.159	4.049	3.667	3.704	20.949
11	San Francisco	3.289	3.339	0.307	0.414	1.011	1.151	0.943	10.455
12	Riverside	0.367	1.126	1.126	1.171	1.171	1.171	1.283	7.417
13	Contra Costa	0.790	0.839	0.483	0.513	0.513	0.405	0.536	4.079
14	San Bernardino				0.169	0.169	1.613	1.444	3.394
15	Ventura	0.099	0.099	0.099	0.287	0.394	0.295	0.295	1.568
16	Marin			0.026	0.120	0.131	0.131	0.131	0.541
17	Kern	0.013	0.013					0.136	0.162
18	Monterey	0.050	0.050	0.050					0.149
19	Fresno				0.013	0.013	0.013		0.040
20	San Joaquin	0.013	0.013	0.013					0.039
21	Butte	0.013	0.013	0.013					0.038
22	Sonoma	0.013	0.013						0.027
Fiscal Year Total:		488.600	599.046	436.108	387.220	331.695	320.759	320.233	2,883.661

H. Environmental Technologies Sector (1993-99 Unclassified R&D)

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	County Total
1	Los Angeles	62,467	65,440	91,889	90,492	93,391	106,716	100,869	611,263
2	Alameda	66,485	110,152	65,349	56,281	57,971	60,866	62,083	479,187
3	Santa Clara	51,763	55,954	55,093	58,473	62,695	62,252	69,896	416,125
4	San Diego	27,663	35,042	57,306	53,880	59,722	56,412	60,227	350,253
5	Santa Barbara	33,071	43,272	46,159	45,119	46,191	47,094	44,852	305,757
6	Yolo	11,558	11,429	11,626	11,436	11,901	12,375	16,323	86,648
7	Orange	6,080	6,735	6,810	4,161	3,933	3,008	9,876	40,603
8	Sacramento	2,027	4,404	4,387	4,792	10,355	6,822	6,978	39,765
9	San Francisco	4,248	5,189	5,579	5,135	5,188	5,638	5,427	36,404
10	San Mateo	3,156	4,979	3,392	3,195	3,853	3,816	5,568	27,959
11	Sonoma	0,134	0,451	5,012	5,036	5,356	5,081	5,250	26,319
12	Santa Cruz	2,639	3,513	3,914	3,050	2,641	2,834	3,030	21,622
13	Riverside	1,688	1,781	2,230	1,644	1,089	0,752	1,161	10,345
14	Lake	0,738	0,738	0,738	1,934	1,934	1,273	0,078	7,434
15	Monterey	0,600	0,987	1,132	0,697	0,929	0,903	1,322	6,570
16	Contra Costa	0,140	0,159	0,375	0,480	0,671	0,680	0,660	3,165
17	Humboldt	0,044	0,114	0,109	0,685	0,680	0,704	0,691	3,027
18	Ventura	0,073	0,037	0,027	0,237	0,325	0,338	0,618	1,655
19	Marin	0,095	0,187	0,162	0,162	0,212	0,307	0,297	1,423
20	San Bernardino	0,253	0,278	0,328	0,086	0,056	0,056	0,056	1,116
21	Kings	0,133	0,133	0,133	0,133	0,133	0,133	0,133	0,800
22	San Luis Obispo	0,083	0,050	0,055	0,068	0,023	0,065	0,136	0,480
23	Fresno		NA	NA	0,158	0,158	0,158	NA	0,474
24	Modoc							0,346	0,346
25	Kern	0,050	0,050	0,033	0,052	0,052	0,018	0,018	0,274
26	Trinity						0,073	0,073	0,145
27	Butte	0,009	0,045	0,045	0,020			0,024	0,143
	San Joaquin			0,001	0,001			0,075	0,077
29	Del Norte						0,025	0,025	0,050
30	Placer			0,013	0,013				0,025
31	Solano	0,023							0,023
32	Glenn						0,010		0,010
33	Shasta	NA	NA	NA	NA	NA	NA		NA
34	Tulare			NA	NA	NA			NA
	<i>Not Specified</i>					0,084	0,084	0,000	0,169
	Fiscal Year Total:	275,222	351,121	361,901	347,421	369,541	378,484	395,968	2,479,658

I. Life Sciences/Biotechnology Sector (1993-99 Unclassified R&D)

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	County Total
1	Los Angeles	292.056	346.942	368.173	371.236	383.815	397.343	637.583	2,797.149
2	San Diego	255.363	293.271	314.822	393.861	341.489	358.662	683.233	2,640.700
3	San Francisco	175.079	213.395	226.037	230.570	247.963	254.871	414.497	1,762.411
4	Santa Clara	133.953	153.417	162.799	174.475	180.915	188.388	299.995	1,293.941
5	Alameda	104.993	126.473	136.440	135.970	138.377	141.807	251.077	1,035.137
6	Yolo	44.116	49.194	51.615	50.502	51.248	54.631	77.815	379.121
7	Orange	32.351	40.011	43.480	42.623	44.616	44.195	69.173	316.449
8	San Mateo	11.133	12.279	12.884	11.076	10.774	10.430	21.081	89.658
9	Santa Barbara	7.113	8.762	10.574	11.107	10.988	10.703	15.515	74.763
10	San Bernardino	5.891	5.764	6.985	9.312	9.794	8.759	12.162	58.669
11	Santa Cruz	5.515	6.547	7.279	6.997	7.117	8.305	12.246	54.006
12	Contra Costa	5.439	6.507	7.107	6.938	7.444	9.348	9.223	52.006
13	Riverside	6.815	7.558	7.569	6.351	7.120	6.604	9.922	51.939
14	Sacramento	1.275	1.374	1.348	0.781	0.851	1.345	2.179	9.151
15	San Joaquin	0.426	0.545	0.601	0.319	0.341	0.368	0.556	3.155
16	Marin	0.297	0.285	0.025	0.205	0.297	0.199	1.843	3.150
17	Fresno	0.218	0.287	0.410	0.442	0.415	0.362	0.271	2.405
18	Monterey	0.026	0.039	0.071	0.071	0.463	0.444	0.469	1.582
19	Sonoma		0.164	0.164	0.164	0.164	0.169	0.203	1.027
20	San Luis Obispo	0.010	0.010	0.010	0.124	0.124	0.124	0.128	0.529
21	Tulare				NA	NA	NA	0.476	0.476
22	Humboldt	0.024	0.047	0.047	0.047	0.032	0.097	0.088	0.380
23	Placer					0.050	0.050	0.250	0.349
24	Stanislaus	0.159	0.159			0.053	0.053	0.105	0.318
25	Shasta								0.212
26	Inyo	0.034	0.034	0.034		0.050	0.050		0.203
27	Ventura	0.031	0.031	0.023	NA	0.050	0.050	NA	0.185
	Butte	0.009	0.025	0.025			0.014	0.039	0.113
29	Solano			0.080					0.080
30	Kern			0.018	0.018	0.018	0.018	NA	0.070
31	Lassen							0.030	0.030
32	Imperial							NA	NA
33	Napa	NA	NA						NA
	<i>Not Specified</i>	NA	NA						
	Fiscal Year Total:	1,082.326	1,273.122	1,358.617	1,453.241	1,444.566	1,497.334	2,520.159	10,629.366

J. Telcommunications Sector (1993-99 Unclassified R&D)

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	County Total
1	Los Angeles	16.597	26.548	28.983	29.106	29.298	30.107	13.903	174.542
2	San Diego	2.670	2.392	2.925	3.183	4.183	4.571	3.869	23.793
3	Santa Clara	3.231	4.441	3.477	3.252	2.354	1.886	1.430	20.070
4	Orange	14.952	0.077	0.503	0.654	0.677	0.612	0.788	18.263
5	Alameda	0.186	0.433	1.185	1.385	2.434	2.976	3.706	12.304
6	Santa Barbara	1.139	1.314	0.779	0.346	0.154	0.013	0.033	3.777
7	San Francisco	0.020	0.382	0.439	0.353	0.551	0.524		2.270
8	Yolo	0.165	0.198	0.385	0.201	0.274	0.581	0.440	2.244
9	Sacramento			0.382	0.515	0.515	0.382	0.382	2.177
10	Napa			0.157	0.157	0.207	0.207	0.207	0.935
11	Ventura	NA	0.114	0.180	0.180	0.150	0.150	0.037	0.812
12	San Mateo	0.172	0.172	0.120	0.105	0.120	NA	0.035	0.722
13	Riverside		0.009	0.009	0.009	0.079	0.079	0.079	0.266
14	Monterey						0.117	0.117	0.233
15	Santa Cruz	NA	NA	NA	0.053	0.053	0.053	0.053	0.213
16	Siskiyou			0.060	0.068	0.008	0.008		0.143
17	Contra Costa	0.010	0.010	0.018	0.018	0.010	0.010		0.075
18	Mendocino		0.009	0.009	0.009				0.028
19	Kern	0.005	0.005	0.005	0.005				0.022
20	Butte			0.007	0.007	0.007			0.020
21	Humboldt				0.007	0.007	0.007		0.020
22	San Bernardino	0.005	0.005	0.005	NA	NA	NA	NA	0.015
23	San Luis Obispo						NA	NA	NA
	<i>Not Specified</i>					NA			NA
	Fiscal Year Total:	39.131	35.746	39.573	39.698	40.883	42.309	25.603	262.943

K. Transportation Sector (1993-99 Unclassified R&D)

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	County Total
1	San Diego	2.852	5.711	6.244	5.837	6.181	6.819	5.645	39.289
2	Alameda	3.279	4.619	5.790	3.268	3.672	3.674	4.645	28.947
3	San Francisco	0.233	0.416	1.388	2.424	3.401	4.525	5.495	17.882
4	Santa Clara	0.629	0.839	1.237	1.080	0.672	4.785	5.575	14.818
5	Los Angeles	2.108	2.023	2.138	1.678	1.059	2.285	3.062	14.353
6	Sacramento	0.273	0.374	0.374	1.231	2.106	2.988	3.848	11.195
7	San Mateo	0.345	0.314	0.286	0.200	3.306	3.306	3.306	11.062
8	Santa Barbara	1.542	1.542	1.542	0.037	0.991	0.991	0.991	7.636
9	Orange	0.520	0.521	1.619	1.135	0.778	1.027	1.027	6.626
10	Santa Cruz					0.094	0.094	0.094	0.281
11	Ventura	0.012	0.012	0.012	0.012	0.012	0.012	0.143	0.215
12	San Bernardino		0.054	0.054	0.006	0.006			0.120
13	Contra Costa	0.010	0.010						0.019
14	Riverside	0.015				NA	NA		0.015
15	Monterey					NA	NA		NA
	Fiscal Year Total:	11.817	16.436	20.685	16.909	22.276	30.505	33.830	152.458

L. Other Technologies (1993-99 Unclassified R&D)

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	County Total
1	Los Angeles	25.324	33.413	41.848	41.480	40.598	34.867	48.028	265.558
2	Alameda	20.412	30.018	30.677	31.706	29.348	27.882	26.851	196.895
3	San Diego	19.715	21.077	22.748	16.162	15.288	19.631	16.489	131.110
4	San Francisco	6.055	8.114	9.456	13.564	14.253	13.947	12.451	77.842
5	Yolo	7.413	9.570	10.321	10.738	10.563	12.687	14.351	75.643
6	Santa Clara	9.745	11.884	11.990	12.240	10.775	8.715	8.256	73.605
7	Santa Cruz	3.287	2.993	4.389	5.207	7.235	8.050	6.046	37.206
8	Santa Barbara	5.378	6.421	5.514	4.705	4.540	4.836	5.573	36.968
9	Riverside	1.521	2.784	3.658	3.169	3.599	3.673	4.454	22.858
10	Orange	1.679	2.840	2.944	2.745	2.817	3.482	3.861	20.367
11	San Mateo	2.182	2.588	3.220	2.493	2.078	2.463	2.191	17.215
12	Sacramento	1.477	2.127	1.882	5.005	2.328	1.880	1.437	16.136
13	Fresno	0.053	0.302	0.558	0.527	0.824	1.002	0.614	3.880
14	Monterey	0.362	0.355	0.425	0.583	0.574	0.515	0.868	3.682
15	Butte	0.036	0.084	0.325	0.060	0.060	1.220	0.160	1.945
16	Humboldt	0.231	0.470	0.259	0.249	0.263	0.202	0.265	1.939
17	Contra Costa	0.319	0.331	0.337	0.036	0.043	0.020	0.020	1.106
18	Ventura	0.151	0.147	0.282	0.282	0.151	0.004	0.005	1.022
19	Marin	0.188	0.188	0.195	0.182	0.066	0.110	0.088	1.019
20	San Bernardino	0.119	0.233	0.236	0.143	0.112	0.085	0.083	1.011
21	Solano	0.151	0.182	0.174	0.143	0.078	0.051	0.008	0.786
22	San Luis Obispo	0.094	0.067	0.099	0.122	0.099	0.130	0.169	0.780
23	Imperial	0.075	0.101	0.124	0.115	0.060	0.040	0.114	0.631
24	Sonoma	0.020	0.020	0.003	0.026	0.080	0.103	0.324	0.575
25	Modoc	0.010	0.100	0.100	0.100				0.310
26	Kern	0.055	0.055	0.051	0.064	0.051			0.276
27	Plumas		0.050	0.100	0.100				0.250
	Mendocino	0.050	0.075	0.025	0.045	0.020	0.020		0.234
29	Shasta		0.050	0.050	0.050		0.025	0.058	0.233
30	San Joaquin	0.003	0.019	0.094	0.077	0.006	0.004	0.004	0.207
31	Glenn	0.050	0.050	0.050					0.150
32	Kings						0.030	0.030	0.060
33	Calaveras				0.050				0.050
34	Colusa	0.050							0.050
35	Napa				0.025	0.025			0.050
36	Tuolumne		0.050						0.050
37	Tulare						0.008	0.008	0.015
	Fiscal Year Total:	106.256	136.709	152.160	152.192	145.908	145.681	152.806	991.712

M. Los Angeles County (1993-99 Unclassified R&D)

Technology Sector	1993	1994	1995	1996	1997	1998	1999	Technology Sector Total
Advanced Computing	15.738	22.192	25.518	28.912	33.046	40.558	32.402	198.366
Advanced materials	22.599	24.434	26.461	23.227	20.443	31.363	27.591	176.118
Aerospace	1,979.072	1,988.440	1,231.853	1,265.708	1,096.695	1,146.670	1,076.826	9,785.265
Defense	993.696	1,279.420	1,421.386	1,425.994	1,561.946	1,423.166	1,536.039	9,641.647
Electronics	1.960	3.488	4.202	2.988	2.345	12.141	11.816	38.941
Energy	48.276	48.951	29.752	30.721	29.699	26.940	27.142	241.482
Environmental Technologies	62.467	65.440	91.889	90.492	93.391	106.716	100.869	611.263
Life Sciences/Biotechnology	292.056	346.942	368.173	371.236	383.815	397.343	637.583	2,797.149
Telecommunications	16.597	26.548	28.983	29.106	29.298	30.107	13.903	174.542
Transportation	2.108	2.023	2.138	1.678	1.059	2.285	3.062	14.353
Other	25.324	33.413	41.848	41.480	40.598	34.867	48.028	265.558
	Fiscal Year Total:	3,459.893	3,841.292	3,272.205	3,311.543	3,292.335	3,252.155	3,515.261
								23,944.684

N. San Diego County (1993-99 Unclassified R&D)

Technology Sector	1993	1994	1995	1996	1997	1998	1999	Technology Sector Total
Advanced Computing	24.325	24.619	49.146	33.239	38.003	76.795	56.411	302.538
Advanced materials	7.602	8.311	13.594	12.632	15.317	16.924	14.492	88.872
Aerospace	22.943	25.015	27.780	23.543	26.859	26.551	28.995	181.687
Defense	269.439	327.511	412.898	461.096	502.496	547.488	497.717	3,018.645
Electronics	3.079	3.424	8.601	7.760	11.210	12.012	9.791	55.877
Energy	13.716	13.681	18.297	17.198	17.092	17.092	17.709	114.784
Environmental Technologies	27.663	35.042	57.306	53.880	59.722	56.412	60.227	350.253
Life Sciences/Biotechnology	255.363	293.271	314.822	393.861	341.489	358.662	683.233	2,640.700
Telecommunications	2.670	2.392	2.925	3.183	4.183	4.571	3.869	23.793
Transportation	2.852	5.711	6.244	5.837	6.181	6.819	5.645	39.289
Other	19.715	21.077	22.748	16.162	15.288	19.631	16.489	131.110
Fiscal Year Total:	649.367	760.055	934.361	1,028.391	1,037.838	1,142.957	1,394.578	6,947.547

O. Santa Clara County (1993-99 Unclassified R&D)

Technology Sector	1993	1994	1995	1996	1997	1998	1999	Technology Sector Total
Advanced Computing	12.228	15.038	26.888	26.245	37.386	52.318	50.042	220.146
Advanced materials	10.089	15.719	27.250	26.072	34.639	50.660	48.941	213.371
Aerospace	148.195	154.884	208.557	198.052	151.557	147.437	163.940	1,172.622
Defense	301.046	385.138	426.934	431.863	437.970	415.652	286.465	2,685.067
Electronics	5.679	7.781	19.306	19.745	28.246	43.978	42.138	166.873
Energy	5.823	6.657	7.174	8.132	7.899	9.169	13.553	58.407
Environmental Technologies	51.763	55.954	55.093	58.473	62.695	62.252	69.896	416.125
Life Sciences/Biotechnology	133.953	153.417	162.799	174.475	180.915	188.388	299.995	1,293.941
Telecommunications	3.231	4.441	3.477	3.252	2.354	1.886	1.430	20.070
Transportation	0.629	0.839	1.237	1.080	0.672	4.785	5.575	14.818
Other	9.745	11.884	11.990	12.240	10.775	8.715	8.256	73.605
Fiscal Year Total:	682.381	811.753	950.706	959.628	955.108	985.238	990.232	6,335.045

P. Orange County (1993-99 Unclassified R&D)

Technology Sector	1993	1994	1995	1996	1997	1998	1999	Technology Sector Total
Advanced Computing	1.313	1.307	2.076	2.116	2.721	4.108	4.405	18.047
Advanced materials	2.000	2.223	4.603	4.179	4.030	4.959	5.314	27.308
Aerospace	320.248	312.146	319.200	319.564	306.364	298.683	295.786	2,171.990
Defense	295.324	299.101	311.291	311.669	317.828	296.819	262.806	2,094.838
Electronics	0.154	0.180	0.635	0.619	0.464	1.637	1.208	4.896
Energy	8.895	9.275	9.257	4.404	4.525	4.348	5.411	46.114
Environmental Technologies	6.080	6.735	6.810	4.161	3.933	3.008	9.876	40.603
Life Sciences/Biotechnology	32.351	40.011	43.480	42.623	44.616	44.195	69.173	316.449
Telecommunications	14.952	0.077	0.503	0.654	0.677	0.612	0.788	18.263
Transportation	0.520	0.521	1.619	1.135	0.778	1.027	1.027	6.626
Other	1.679	2.840	2.944	2.745	2.817	3.482	3.861	20.367
Fiscal Year Total:	683.515	674.415	702.419	693.869	688.752	662.877	659.653	4,765.500

Q. Alameda County (1993-99 Unclassified R&D)

Technology Sector	1993	1994	1995	1996	1997	1998	1999	Technology Sector Total
Advanced Computing	18.481	20.371	24.126	23.520	44.637	94.650	96.900	322.685
Advanced materials	67.273	92.800	85.023	68.663	69.055	72.431	72.035	527.279
Aerospace	34.762	36.824	35.900	36.275	33.725	35.763	35.783	249.030
Defense	57.940	184.846	263.109	103.700	114.589	111.881	99.017	935.082
Electronics	1.227	1.186	2.590	2.359	2.191	4.238	3.961	17.754
Energy	177.057	283.601	253.415	207.136	153.227	141.178	131.911	1,347.525
Environmental Technologies	66.485	110.152	65.349	56.281	57.971	60.866	62.083	479.187
Life Sciences/Biotechnology	104.993	126.473	136.440	135.970	138.377	141.807	251.077	1,035.137
Telecommunications	0.186	0.433	1.185	1.385	2.434	2.976	3.706	12.304
Transportation	3.279	4.619	5.790	3.268	3.672	3.674	4.645	28.947
Other	20.412	30.018	30.677	31.706	29.348	27.882	26.851	196.895
Fiscal Year Total:	552.096	891.323	903.604	670.262	649.225	697.347	787.970	5,151.826

R. San Francisco County (1993-99 Unclassified R&D)

Technology Sector	1993	1994	1995	1996	1997	1998	1999	Technology Sector Total
Advanced Computing	0.367	0.466	3.447	3.460	3.222	4.497	4.437	19.896
Advanced materials	0.173	0.187	2.854	2.844	2.855	3.654	3.757	16.324
Aerospace	1.727	2.255	2.877	2.677	3.054	3.498	3.787	19.875
Defense	19.583	25.491	25.579	27.048	33.772	40.175	49.666	221.314
Electronics			2.604	2.639	2.639	3.453	3.453	14.788
Energy	3.289	3.339	0.307	0.414	1.011	1.151	0.943	10.455
Environmental Technologies	4.248	5.189	5.579	5.135	5.188	5.638	5.427	36.404
Life Sciences/Biotechnology	175.079	213.395	226.037	230.570	247.963	254.871	414.497	1,762.411
Telecommunications	0.020	0.382	0.439	0.353	0.551	0.524		2.270
Transportation	0.233	0.416	1.388	2.424	3.401	4.525	5.495	17.882
Other	6.055	8.114	9.456	13.564	14.253	13.947	12.451	77.842
Fiscal Year Total:	210.754	258.873	280.511	291.216	317.712	335.961	504.436	2,199.462

S. San Mateo County (1993-99 Unclassified R&D)

Technology Sector	1993	1994	1995	1996	1997	1998	1999	Technology Sector Total
Advanced Computing	1.402	2.155	5.198	5.207	5.636	10.684	9.675	39.957
Advanced materials	0.089	0.590	2.993	2.993	3.018	7.206	7.809	24.699
Aerospace	3.669	16.879	17.360	16.401	17.190	18.449	18.331	108.279
Defense	38.271	38.037	39.923	32.614	37.249	36.802	28.545	251.441
Electronics	0.005	0.819	3.222	3.222	3.229	7.417	6.144	24.058
Energy	211.146	211.184	92.541	92.318	92.027	92.410	94.393	886.018
Environmental Technologies	3.156	4.979	3.392	3.195	3.853	3.816	5.568	27.959
Life Sciences/Biotechnology	11.133	12.279	12.884	11.076	10.774	10.430	21.081	89.658
Telecommunications	0.172	0.172	0.120	0.105	0.120	NA	0.035	0.722
Transportation	0.345	0.314	0.286	0.200	3.306	3.306	3.306	11.062
Other	2.182	2.588	3.220	2.493	2.078	2.463	2.191	17.215
Fiscal Year Total:	271.570	289.997	181.139	169.824	178.479	192.980	197.077	1,481.068

T. Santa Barbara County (1993-99 Unclassified R&D)

Technology Sector	1993	1994	1995	1996	1997	1998	1999	Technology Sector Total
Advanced Computing	3.878	5.311	6.285	6.089	6.626	7.210	7.692	43.089
Advanced materials	9.931	9.447	9.160	9.684	9.040	5.687	5.268	58.216
Aerospace	41.584	51.037	51.528	47.123	49.469	50.494	44.217	335.454
Defense	41.103	47.600	58.550	66.673	65.224	62.302	49.635	391.088
Electronics	0.567	0.590	0.724	0.710	0.697	0.783	0.851	4.922
Energy	3.117	4.090	4.046	4.628	4.231	4.177	3.988	28.276
Environmental Technologies	33.071	43.272	46.159	45.119	46.191	47.094	44.852	305.757
Life Sciences/Biotechnology	7.113	8.762	10.574	11.107	10.988	10.703	15.515	74.763
Telecommunications	1.139	1.314	0.779	0.346	0.154	0.013	0.033	3.777
Transportation	1.542	1.542	1.542	0.037	0.991	0.991	0.991	7.636
Other	5.378	6.421	5.514	4.705	4.540	4.836	5.573	36.968
Fiscal Year Total:	148.424	179.386	194.860	196.221	198.151	194.291	178.615	1,289.948

X. California's Unclassified SBIR Funding Breakdown By Agency and County

A. 1993-1999 Aggregated

Rank	County Name	DOC	DOD	DOE	DOT	EPA	HHS	NASA	NSF	USDA	County Total
1	Santa Clara	2.107	NA	27.637	1.220	0.237	48.499	45.271	13.831	0.065	138.868
2	Los Angeles	1.750	NA	30.907	1.375	0.312	30.386	52.427	15.101	0.362	132.620
3	San Diego	0.944	NA	20.639	3.008		48.976	21.337	7.132	0.850	102.885
4	Alameda	0.050	NA	8.528	0.050	0.022	27.850	8.211	6.120	0.270	51.100
5	Orange	0.338	NA	3.641		0.212	8.513	20.039	2.871	0.230	35.843
6	San Mateo	0.088	NA	6.072	0.307	0.535	9.865	6.342	4.027	0.033	27.269
7	Santa Barbara	0.169	NA	4.619	0.349		7.909	2.191	2.788	0.173	18.199
8	Contra Costa		NA	1.122		0.080	7.492	3.283	0.486	0.443	12.907
9	Ventura		NA	3.541			1.259	6.450	0.650	0.033	11.932
10	San Francisco			0.824			6.456	2.146	1.117		10.543
11	Marin			0.488			8.174	0.119	0.315		9.095
12	Sacramento	0.250	NA	0.650			2.943	1.766	0.149	0.033	5.790
13	Santa Cruz			0.201			3.016	0.636	1.054		4.908
14	Yolo			0.272			0.370	1.833	0.433	0.432	3.339
15	Placer		NA				0.099	2.317			2.416
16	Riverside			0.075		0.016	1.311	0.485			1.923
17	Solano						0.878	0.269	0.572		1.718
18	Kern	0.050						1.402		0.120	1.572
19	San Bernardino			0.075			0.738	0.560	0.097		1.470
20	San Luis Obispo							1.030		0.327	1.357
21	Sonoma							0.100	0.387	0.290	0.777
22	Inyo								0.740		0.740
23	Monterey	0.198						0.068	0.300		0.566
24	Shasta						0.371			0.097	0.468
25	Butte							0.070		0.215	0.285
26	Fresno						0.150	0.067		0.041	0.258
27	El Dorado							0.067	0.178		0.245
Agency Total:		5.943	NA	109.291	6.309	1.414	216.384	178.484	57.839	3.431	579.096

NA = There are grants in this category but the funding is classified and unavailable.

B. 1993

Rank	County Name	DOC	DOD	DOE	DOT	EPA	HHS	NASA	NSF	USDA	County Total
1	Los Angeles		NA	2.147	0.238		1.937	5.102	1.579		11.003
2	Santa Clara		NA	2.267	0.065		1.957	4.191	1.385		9.866
3	San Diego		NA	1.991			2.946	1.205	0.764		6.905
4	Alameda			0.659			2.245	1.149	0.692		4.745
5	Orange		NA	0.025			0.326	2.359	0.501		3.211
6	San Mateo		NA	0.209			0.980	0.689	0.629		2.508
7	Contra Costa			0.112			1.033	0.178	0.141		1.463
8	Santa Barbara			0.379			0.285	0.071	0.158		0.893
9	Ventura			0.175				0.388	0.156		0.719
10	San Francisco						0.537		0.143		0.680
11	Sacramento		0.138				0.350				0.488
12	Yolo		0.136					0.263			0.399
13	Santa Cruz						0.100	0.250			0.350
14	Marin						0.075	0.049	0.064		0.188
15	Sonoma							0.134	0.025		0.159
16	Placer							0.116			0.116
17	Riverside						0.025	0.050			0.075
18	El Dorado								0.050		0.050
19	Solano						0.025		0.050		0.050
20	Fresno									0.025	0.025
21	San Bernardino							0.021		0.021	0.000
Agency Total:		NA	8.237	0.303		12.821	16.216	6.337			43.914

NA = There are grants in this category but the funding is classified and unavailable.

C. 1994

Rank	County Name	DOC	DOD	DOE	DOT	EPA	HHS	NASA	NSF	USDA	County Total
1	Los Angeles	0.100	NA	3.702	0.297		3.177	7.270	1.768	0.060	16.375
2	Santa Clara	0.050	NA	3.699	0.100		5.004	5.972	1.502		16.328
3	San Diego	0.042	NA	3.275	0.385		5.030	1.961	1.161		11.854
4	Alameda	0.050	NA	0.770	0.025		2.772	1.677	0.912	0.072	6.278
5	San Mateo		NA	0.833	0.077	0.008	1.486	0.754	0.522		3.680
6	Orange		NA	0.147			0.731	2.241	0.424	0.060	3.603
7	Contra Costa			0.149			1.137	0.697	0.091		2.073
8	Ventura			0.549				1.133	0.089		1.771
9	Santa Barbara		NA	0.642			0.625		0.225	0.058	1.549
10	Santa Cruz			0.038			0.507	0.250	0.065		0.859
11	San Francisco						0.682	0.067			0.748
12	Sacramento				NA	0.138		0.463	0.070		0.670
13	Marin						0.557		0.093		0.650
14	Yolo			0.136			0.038	0.350			0.523
15	Riverside			0.038			0.195	0.069			0.301
16	Placer						0.254				0.254
17	Sonoma						0.159	0.057			0.217
18	Solano							0.150			0.150
19	El Dorado						0.067	0.064			0.131
20	Fresno						0.025	0.067			0.092
21	Inyo							0.070			0.070
22	Monterey							0.068			0.068
	Agency Total:	0.242	NA	14.114	0.884	0.008	22.429	23.196	7.123	0.249	68.245

NA = There are grants in this category but the funding is classified and unavailable.

D. 1995

Rank	County Name	DOC	DOD	DOE	DOT	EPA	HHS	NASA	NSF	USDA	County Total
1	Santa Clara	0.275	NA	4.058	0.096	0.011	7.144	7.797	2.512		21.892
2	Los Angeles	0.742	NA	4.285	0.321		5.059	7.693	2.628	0.060	20.787
3	San Diego	0.200	NA	3.227	0.378		5.146	3.238	1.346		13.535
4	Alameda		NA	0.457	0.025	0.011	3.889	1.407	1.188	0.072	7.050
5	Orange	0.025	NA	0.148		0.011	2.509	3.073	0.414	0.060	6.240
6	San Mateo		NA	0.923	0.077	0.051	1.885	0.965	0.609		4.510
7	Ventura		NA	0.512			0.449	1.604	0.065		2.629
8	Santa Barbara	0.025	NA	0.642	0.038		0.991	0.070	0.602	0.058	2.425
9	Contra Costa			0.037			0.648	0.639	0.123		1.447
10	San Francisco			0.206			0.875	0.290	0.032		1.404
11	Marin						0.898		0.125		1.024
12	Santa Cruz			0.038			0.541		0.165		0.744
13	Sacramento		NA				0.287	0.418	0.032		0.737
14	Placer						0.577				0.577
15	Riverside			0.038		0.008	0.420	0.068			0.534
16	Yolo						0.133	0.350	0.032		0.515
17	Solano							0.150			0.150
18	San Bernardino			0.038			0.068				0.106
19	Inyo						0.070				0.070
20	Monterey	0.066						0.064			0.066
21	El Dorado						0.025	0.032			0.064
22	Sonoma						0.047				0.057
23	San Luis Obispo										0.047
	Agency Total:	1.332	NA	14.607	0.934	0.092	30.922	28.352	10.121	0.249	86.609

NA = There are grants in this category but the funding is classified and unavailable.

E. 1996

Rank	County Name	DOC	DOD	DOE	DOT	EPA	HHS	NASA	NSF	USDA	County Total
1	Santa Clara	0.408	NA	3.642	0.081	0.011	7.630	7.036	2.309		21.118
2	Los Angeles	0.283	NA	4.792	0.266		4.591	7.674	1.966	0.074	19.648
3	San Diego	0.273	NA	3.608	0.418		5.577	3.532	1.237	0.033	14.677
4	Alameda		NA	0.672		0.011	3.778	1.528	1.148	0.072	7.208
5	Orange	0.050	NA	0.478		0.011	0.959	3.463	0.247	0.060	5.268
6	San Mateo		NA	1.121	0.077	0.043	0.932	1.037	0.679		3.888
7	Santa Barbara	0.075	NA	1.001	0.058		1.148	0.187	0.482	0.058	3.009
8	Ventura		NA	0.581			0.399	1.606	0.032		2.618
9	San Francisco			0.206			0.944	0.450	0.207		1.808
10	Marin						1.386		0.032		1.419
11	Sacramento	0.025	NA	0.100			0.699	0.469	0.032		1.326
12	Contra Costa		NA	0.206			0.222	0.677	0.032		1.137
13	Santa Cruz						0.884		0.075		0.959
14	Placer		NA			0.050	0.587				0.637
15	Riverside				0.008	0.420					0.428
16	Yolo						0.186	0.101	0.070		0.357
17	Solano							0.222			0.222
18	Inyo						0.200				0.200
19	San Bernardino			0.038			0.118				0.155
20	Sonoma						0.069	0.075			0.144
21	Butte								0.072		0.072
22	Monterey	0.066									0.066
23	San Luis Obispo					0.047					0.047
24	Kern	0.025									0.025
Agency Total:											86.435

NA = There are grants in this category but the funding is classified and unavailable.

F. 1997

Rank	County Name	DOC	DOD	DOE	DOT	EPA	HHS	NASA	NSF	USDA	County Total
1	Santa Clara	0.417	NA	5.098	0.303	0.056	9.490	7.424	1.641		24.429
2	Los Angeles	0.183	NA	5.909	0.220	0.056	6.015	8.586	2.495	0.063	23.528
3	San Diego	0.231	NA	3.676	0.541		7.968	4.569	0.947	0.180	18.111
4	Alameda		NA	3.249			5.506	1.372	0.742	0.028	10.896
5	Orange	0.125	NA	0.722		0.018	1.321	3.492	0.374	0.017	6.068
6	San Mateo	0.025	NA	1.218	0.077	0.091	1.211	1.374	0.397		4.393
7	Santa Barbara		NA	0.660	0.123		1.487	0.350	0.425		3.044
8	San Francisco			0.206			1.387	0.520	0.200		2.313
9	Marin			0.175			2.059				2.234
10	Contra Costa			0.206		0.017	1.168	0.544		0.082	2.017
11	Ventura		NA	0.787			0.361	0.857			2.004
12	Sacramento	0.092	NA	0.137			0.550	0.539			1.318
13	Yolo						0.100	0.444	0.100	0.124	0.768
14	Placer		NA				0.050	0.587			0.637
15	Santa Cruz						0.243	0.066	0.250		0.559
16	Kern	0.025						0.397		0.028	0.450
17	Solano						0.376				0.376
18	San Luis Obispo						0.296				0.296
19	Riverside				0.250				0.018		0.268
20	Inyo						0.200				0.200
21	San Bernardino						0.118				0.118
22	Butte								0.072		0.072
23	Fresno					0.050			0.021		0.071
24	Monterey	0.066									0.066
Agency Total:											104.236

NA = There are grants in this category but the funding is classified and unavailable.

G. 1998

Rank	County Name	DOC	DOD	DOE	DOT	EPA	HHS	NASA	NSF	USDA	County Total
1	Santa Clara	0.458	NA	4.498	0.287	0.080	10.082	6.215	1.951	0.033	23.604
2	Los Angeles	0.198	NA	5.113	0.033	0.073	5.677	7.306	2.035	0.084	20.520
3	San Diego	0.088	NA	2.803	0.643		12.034	3.588	0.924	0.329	20.408
4	Alameda		NA	1.266			5.128	0.544	0.858	0.028	7.823
5	Orange	0.100	NA	0.778		0.041	1.345	2.739	0.307	0.017	5.326
6	San Mateo	0.025	NA	0.960		0.115	1.699	0.626	0.627		4.053
7	Santa Barbara	0.035	NA	0.643	0.066		1.962	0.534	0.549		3.787
8	Contra Costa			0.206		0.040	1.360	0.349	0.100	0.185	2.240
9	San Francisco			0.206			1.267	0.450	0.300		2.223
10	Marin			0.175			1.823				1.998
11	Ventura		NA	0.469			0.050	0.449	0.100		1.068
12	Sacramento	0.067	NA	0.137			0.547	0.200			0.951
13	Santa Cruz						0.542		0.250		0.792
14	Kern						0.502			0.060	0.562
15	Yolo						0.100	0.120	0.100	0.181	0.501
16	San Bernardino						0.369	0.118			0.487
17	San Luis Obispo						0.345		0.093		0.439
18	Solano						0.276	0.035			0.311
19	Inyo							0.200			0.200
20	Placer		NA					0.196			0.196
21	Monterey								0.100		0.100
22	Butte									0.072	0.072
23	Fresno						0.050			0.021	0.071
24	Riverside							0.034		0.018	0.052
25	Sonoma						0.050				0.050
26	Shasta									0.032	0.032
	Agency Total:	0.970	NA	17.255	1.029	0.348	44.705	24.205	8.295	1.058	97.865

NA = There are grants in this category but the funding is classified and unavailable.

H. 1999

Rank	County Name	DOC	DOD	DOE	DOT	EPA	HHS	NASA	NSF	USDA	County Total
1	Santa Clara	0.500	NA	4.375	0.287	0.080	7.190	6.636	2.531	0.033	21.631
2	Los Angeles	0.244	NA	4.959		0.183	3.930	8.795	2.630	0.021	20.761
3	San Diego	0.112	NA	2.059	0.643		10.275	3.244	0.755	0.307	17.396
4	Alameda			1.455			4.532	0.534	0.580		7.100
5	Orange	0.038	NA	1.345		0.132	1.322	2.671	0.605	0.017	6.128
6	San Mateo	0.038	NA	0.807		0.227	1.671	0.896	0.564	0.033	4.236
7	Santa Barbara	0.035	NA	0.653	0.066		1.413	0.978	0.348		3.492
8	Contra Costa		NA	0.206		0.023	1.924	0.199		0.176	2.529
9	Marin			0.138			1.375	0.070			1.582
10	San Francisco						0.765	0.370	0.233		1.368
11	Ventura		NA	0.469				0.412	0.208	0.033	1.121
12	Santa Cruz			0.126			0.199	0.070	0.250		0.645
13	San Bernardino						0.369	0.118	0.097		0.584
14	Kern						0.502			0.032	0.535
15	San Luis Obispo						0.295		0.233		0.529
16	Solano						0.226	0.234			0.460
17	Shasta						0.371			0.065	0.435
18	Sacramento	0.067	NA				0.047	0.070	0.084	0.033	0.300
19	Yolo							0.120	0.100	0.057	0.277
20	Riverside								0.264		0.264
21	Monterey									0.200	0.200
22	Sonoma						0.050		0.100		0.150
23	Butte								0.070		0.070
	Agency Total:	1.032	NA	16.591	0.996	0.645	35.954	26.255	9.517	0.804	91.793

NA = There are grants in this category but the funding is classified and unavailable.

I. 2000

Rank	County Name	DOC	DOD	DOE	DOT	EPA	HHS*	NASA	NSF	USDA	County Total
1	Los Angeles	0.212	NA	3.239		0.110	--	6.703	2.941		13.205
2	Santa Clara	0.217	NA	3.706		0.035	--	5.417	2.584		11.958
3	San Diego		NA	1.389	0.643	0.035	--	3.127	1.343	0.066	6.603
4	Orange	0.038	NA	1.005		0.109	--	1.798	1.224		4.173
5	Alameda			1.125			--	0.339	0.914		2.378
6	San Mateo	0.038		0.557		0.148	--	0.873	0.566	0.033	2.214
7	Santa Barbara		NA	0.544	0.066		--	0.815	0.547		1.972
8	Ventura			0.275			--	0.528	0.267	0.033	1.102
9	San Francisco						--	0.199	0.233		0.433
10	Contra Costa						--			0.143	0.143
11	San Bernardino						--	0.118	0.100		0.218
12	Shasta						--			0.033	0.033
13	Yolo						--	0.120	0.200	0.057	0.377
14	Santa Cruz		0.176				--		0.133		0.309
15	Riverside		0.050				--	0.230			0.279
16	Marin		0.188		0.035		--				0.223
17	San Luis Obispo						--	0.070	0.133		0.203
18	Monterey						--		0.200		0.200
19	Butte						--	0.200			0.200
20	Solano						--	0.199			0.199
21	Sacramento		0.050				--	0.035		0.033	0.117
22	Inyo						--	0.070			0.070
23	El Dorado						--	0.070			0.070
							--				
	Agency Total:	0.504	NA	12.303	0.709	0.471	--	20.909	11.386	0.396	46.678

NA = There are grants in this category but the funding is classified and unavailable.
 FY2000 data for HHS is unavailable.

XI. California's Unclassified SBIR Funding Trends, by County

A. 1993-1999 Aggregated

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	County Total
1	Santa Clara	9.866	16.328	21.892	21.118	24.429	23.604	21.631	138.868
2	Los Angeles	11.003	16.375	20.787	19.648	23.528	20.520	20.761	132.620
3	San Diego	6.905	11.854	13.535	14.677	18.111	20.408	17.396	102.885
4	Alameda	4.745	6.278	7.050	7.208	10.896	7.823	7.100	51.100
5	Orange	3.211	3.603	6.240	5.268	6.068	5.326	6.128	35.843
6	San Mateo	2.508	3.680	4.510	3.888	4.393	4.053	4.236	27.269
7	Santa Barbara	0.893	1.549	2.425	3.009	3.044	3.787	3.492	18.199
8	Contra Costa	1.463	2.073	1.447	1.137	2.017	2.240	2.529	12.907
9	Ventura	0.719	1.771	2.629	2.618	2.004	1.068	1.121	11.932
10	San Francisco	0.680	0.748	1.404	1.808	2.313	2.223	1.368	10.543
11	Marin	0.188	0.650	1.024	1.419	2.234	1.998	1.582	9.095
12	Sacramento	0.488	0.670	0.737	1.326	1.318	0.951	0.300	5.790
13	Santa Cruz	0.350	0.859	0.744	0.959	0.559	0.792	0.645	4.908
14	Yolo	0.399	0.523	0.515	0.357	0.768	0.501	0.277	3.339
15	Placer	0.116	0.254	0.577	0.637	0.637	0.196		2.416
16	Riverside	0.075	0.301	0.534	0.428	0.268	0.052	0.264	1.923
17	Solano	0.050	0.150	0.150	0.222	0.376	0.311	0.460	1.718
18	Kern				0.025	0.450	0.562	0.535	1.572
19	San Bernardino	0.021		0.106	0.155	0.118	0.487	0.584	1.470
20	San Luis Obispo			0.047	0.047	0.296	0.439	0.529	1.357
21	Sonoma	0.159	0.217	0.057	0.144		0.050	0.150	0.777
22	Inyo	0.070	0.070	0.200	0.200	0.200	0.200		0.740
23	Monterey	0.068	0.066	0.066	0.066	0.100	0.200		0.566
24	Shasta						0.032	0.435	0.468
25	Butte				0.072	0.072	0.072	0.070	0.285
26	Fresno	0.025	0.092			0.071	0.071		0.258
27	El Dorado	0.050	0.131	0.064					0.245
Fiscal Year Total:		43.914	68.245	86.609	86.435	104.236	97.865	91.793	579.096

B. Department of Commerce

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	2000	County Total
1	Santa Clara	0.050	0.275	0.408	0.417	0.458	0.500	0.217		2.324
2	Los Angeles	0.100	0.742	0.283	0.183	0.198	0.244	0.212		1.962
3	San Diego	0.042	0.200	0.273	0.231	0.088	0.112			0.944
4	Orange	0.025	0.050	0.125	0.100	0.038	0.038			0.375
5	Sacramento		0.025	0.092	0.067	0.067				0.250
6	Monterey	0.066	0.066	0.066						0.198
7	Santa Barbara	0.025	0.075		0.035	0.035				0.169
8	San Mateo			0.025	0.025	0.038	0.038			0.125
9	Alameda	0.050								0.050
10	Kern		0.025	0.025						0.050
Fiscal Year Total:		0.242	1.332	1.204	1.164	0.970	1.032	0.504		6.447

C. Department of Defense

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	2000	County Total
1	Los Angeles	5	6	11	10	13	7	6	5	63
2	Santa Clara	1	4	6	10	14	12	6	4	57
3	San Diego	3	4	6	9	9	9	7	7	54
4	Santa Barbara	1	1	2	4	6	4	2		20
5	Orange	1	1	1	2	3	4	4	3	19
6	San Mateo	2	2	2	1	1	3	2		13
7	Ventura			2	4	3	1	1		11
8	Alameda			1	1	3	2	2		9
9	Sacramento			1	2	1	2	2	1	9
10	Placer				1	1	1			3
11	Contra Costa					1		1		2
Fiscal Year Total:		12	20	32	44	52	47	32	21	260

Note: Funding on DOD SBIR awards is unavailable. The no. of awards are listed to give an estimate of potential activity in each county.

D. Department of Energy

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	2000	County Total
1	Los Angeles	2.147	3.702	4.285	4.792	5.909	5.113	4.959	3.239	34.146
2	Santa Clara	2.267	3.699	4.058	3.642	5.098	4.498	4.375	3.706	31.343
3	San Diego	1.991	3.275	3.227	3.608	3.676	2.803	2.059	1.389	22.028
4	Alameda	0.659	0.770	0.457	0.672	3.249	1.266	1.455	1.125	9.653
5	San Mateo	0.209	0.833	0.923	1.121	1.218	0.960	0.807	0.557	6.629
6	Santa Barbara	0.379	0.642	0.642	1.001	0.660	0.643	0.653	0.544	5.163
7	Orange	0.025	0.147	0.148	0.478	0.722	0.778	1.345	1.005	4.646
8	Ventura	0.175	0.549	0.512	0.581	0.787	0.469	0.469	0.275	3.816
9	Contra Costa	0.112	0.149	0.037	0.206	0.206	0.206	0.206	0.206	1.122
10	San Francisco			0.206	0.206	0.206	0.206			0.824
11	Sacramento	0.138	0.138		0.100	0.137	0.137		0.050	0.700
12	Marin					0.175	0.175	0.138	0.188	0.675
13	Santa Cruz		0.038	0.038				0.126	0.176	0.377
14	Yolo	0.136	0.136							0.272
15	Riverside		0.038	0.038				0.050		0.125
16	San Bernardino			0.038	0.038					0.075
Fiscal Year Total:		8.237	14.114	14.607	16.444	22.042	17.255	16,591	12.303	121.594

E. Department of Transportation

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	2000	County Total
1	San Diego		0.385	0.378	0.418	0.541	0.643	0.643	0.643	3.651
2	Los Angeles	0.238	0.297	0.321	0.266	0.220	0.033			1.375
3	Santa Clara	0.065	0.100	0.096	0.081	0.303	0.287	0.287		1.220
4	Santa Barbara			0.038	0.058	0.123	0.066	0.066	0.066	0.415
5	San Mateo	0.077	0.077	0.077	0.077					0.307
6	Alameda	0.025	0.025							0.050
Fiscal Year Total:		0.303	0.884	0.934	0.899	1.264	1.029	0.996	0.709	7.018

F. Environmental Protection Agency

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	2000	County Total
1	San Mateo	0.008	0.051	0.043	0.091	0.115	0.227	0.148		0.683
2	Los Angeles				0.056	0.073	0.183	0.110		0.422
3	Orange			0.011	0.011	0.018	0.041	0.132	0.109	0.321
4	Santa Clara			0.011	0.011	0.056	0.080	0.080	0.035	0.272
5	Contra Costa				0.017	0.040	0.023			0.080
6	Marin						0.035			0.035
7	San Diego						0.035			0.035
8	Alameda	0.011	0.011							0.022
9	Riverside	0.008	0.008							0.016
Fiscal Year Total:		0.008	0.092	0.084	0.238	0.348	0.645	0.471		1.885

G. Department of Health & Human Services

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	2000*	County Total
1	San Diego	2.946	5.030	5.146	5.577	7.968	12.034	10.275	2.058	51.033
2	Santa Clara	1.957	5.004	7.144	7.630	9.490	10.082	7.190	0.901	49.400
3	Los Angeles	1.937	3.177	5.059	4.591	6.015	5.677	3.930	1.043	31.429
4	Alameda	2.245	2.772	3.889	3.778	5.506	5.128	4.532	1.292	29.141
5	San Mateo	0.980	1.486	1.885	0.932	1.211	1.699	1.671	0.050	9.915
6	Orange	0.326	0.731	2.509	0.959	1.321	1.345	1.322	0.319	8.832
7	Marin	0.075	0.557	0.898	1.386	2.059	1.823	1.375	0.000	8.174
8	Contra Costa	1.033	1.137	0.648	0.222	1.168	1.360	1.924	0.551	8.043
9	Santa Barbara	0.285	0.625	0.991	1.148	1.487	1.962	1.413	0.108	8.017
10	San Francisco	0.537	0.682	0.875	0.944	1.387	1.267	0.765	0.355	6.811
11	Santa Cruz	0.100	0.507	0.541	0.884	0.243	0.542	0.199		3.016
12	Sacramento	0.350	0.463	0.287	0.699	0.550	0.547	0.047		2.943
13	Riverside	0.025	0.195	0.420	0.420	0.250				1.311
14	Ventura			0.449	0.399	0.361	0.050			1.259
15	San Bernardino					0.369	0.369	0.369	0.369	1.107
16	San Luis Obispo			0.047	0.047	0.296	0.345	0.295		1.030
17	Solano					0.376	0.276	0.226		0.878
18	Shasta						0.371	0.371		0.741
19	Yolo	0.038	0.133			0.100	0.100			0.370
20	Fresno	0.025	0.025			0.050	0.050			0.150
21	Sonoma					0.050	0.050			0.100
22	Placer				0.050	0.050				0.099
Fiscal Year Total:		12.821	22.429	30.922	29.667	39.887	44.705	35.954	7.416	223.800

*FY2000 Data for HHS is incomplete at this time.

H. National Aeronautics & Space Administration

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	2000	County Total	
1	Los Angeles	5.102	7.270	7.693	7.674	8.586	7.306	8.795	6.703	59.130	
2	Santa Clara	4.191	5.972	7.797	7.036	7.424	6.215	6.636	5.417	50.688	
3	San Diego	1.205	1.961	3.238	3.532	4.569	3.588	3.244	3.127	24.463	
4	Orange	2.359	2.241	3.073	3.463	3.492	2.739	2.671	1.798	21.836	
5	Alameda	1.149	1.677	1.407	1.528	1.372	0.544	0.534	0.339	8.551	
6	San Mateo	0.689	0.754	0.965	1.037	1.374	0.626	0.896	0.873	7.215	
7	Ventura	0.388	1.133	1.604	1.606	0.857	0.449	0.412	0.528	6.978	
8	Contra Costa	0.178	0.697	0.639	0.677	0.544	0.349	0.199		3.283	
9	Santa Barbara	0.071		0.070	0.187	0.350	0.534	0.978	0.815	3.006	
10	San Francisco			0.067	0.290	0.450	0.520	0.450	0.370	0.199	2.346
11	Placer	0.116	0.254	0.577	0.587	0.587	0.196			2.317	
12	Yolo	0.263	0.350	0.350	0.186	0.444	0.120	0.120	0.120	1.953	
13	Sacramento			0.070	0.418	0.469	0.539	0.200	0.070	0.035	1.801
14	Kern					0.397	0.502	0.502		1.402	
15	Inyo		0.070	0.070	0.200	0.200	0.200		0.070	0.810	
16	Riverside	0.050	0.069	0.068			0.034	0.264	0.230	0.714	
17	San Bernardino	0.021		0.068	0.118	0.118	0.118	0.118	0.118	0.678	
18	Santa Cruz	0.250	0.250			0.066		0.070		0.636	
19	Solano						0.035	0.234	0.199	0.467	
20	Sonoma	0.134	0.159	0.025	0.069					0.387	
21	Butte							0.070	0.200	0.270	
22	El Dorado			0.067					0.070	0.137	
23	Marin	0.049						0.070		0.119	
24	San Luis Obispo								0.070	0.070	
25	Monterey		0.068							0.068	
26	Fresno		0.067							0.067	
Fiscal Year Total:		16.216	23.196	28.352	28.821	31.439	24.205	26.255	20.909	199.393	

I. National Science Foundation

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	2000	County Total
1	Los Angeles	1.579	1.768	2.628	1.966	2.495	2.035	2.630	2.941	18.042
2	Santa Clara	1.385	1.502	2.512	2.309	1.641	1.951	2.531	2.584	16.415
3	San Diego	0.764	1.161	1.346	1.237	0.947	0.924	0.755	1.343	8.475
4	Alameda	0.692	0.912	1.188	1.148	0.742	0.858	0.580	0.914	7.034
5	San Mateo	0.629	0.522	0.609	0.679	0.397	0.627	0.564	0.566	4.594
6	Orange	0.501	0.424	0.414	0.247	0.374	0.307	0.605	1.224	4.095
7	Santa Barbara	0.158	0.225	0.602	0.482	0.425	0.549	0.348	0.547	3.335
8	San Francisco	0.143		0.032	0.207	0.200	0.300	0.233	0.233	1.350
9	Santa Cruz		0.065	0.165	0.075	0.250	0.250	0.250	0.133	1.188
10	Ventura	0.156	0.089	0.065	0.032		0.100	0.208	0.267	0.917
11	Yolo			0.032	0.101	0.100	0.100	0.100	0.200	0.632
12	Solano	0.050	0.150	0.150	0.222					0.572
13	Monterey						0.100	0.200	0.200	0.500
14	Contra Costa	0.141	0.091	0.123	0.032		0.100			0.486
15	San Luis Obispo						0.093	0.233	0.133	0.460
16	Marin	0.064	0.093	0.125	0.032					0.315
17	Sonoma	0.025	0.057	0.032	0.075			0.100		0.290
18	San Bernardino							0.097	0.100	0.197
19	El Dorado	0.050	0.064	0.064						0.178
20	Sacramento			0.032	0.032			0.084		0.149
Fiscal Year Total:		6.337	7.123	10.121	8.877	7.570	8.295	9.517	11.386	69.225

J. US Department of Agriculture

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	2000	County Total
1	San Diego				0.033	0.180	0.329	0.307	0.066	0.915
2	Contra Costa					0.082	0.185	0.176	0.143	0.586
3	Yolo					0.070	0.124	0.181	0.057	0.488
4	Los Angeles			0.060	0.060	0.074	0.063	0.084	0.021	0.362
5	Alameda			0.072	0.072	0.072	0.028	0.028		0.270
6	Orange			0.060	0.060	0.060	0.017	0.017	0.017	0.230
7	Butte					0.072	0.072	0.072		0.215
8	Santa Barbara			0.058	0.058	0.058				0.173
9	Shasta						0.032	0.065	0.033	0.130
10	Kern						0.028	0.060	0.032	0.120
11	Sacramento							0.033	0.033	0.065
12	San Mateo							0.033	0.033	0.065
13	Santa Clara							0.033	0.033	0.065
14	Ventura							0.033	0.033	0.065
15	Fresno						0.021	0.021		0.041
16	Riverside						0.018	0.018		0.036
Fiscal Year Total:		0.249	0.249	0.439	0.632	1.058	0.804	0.396		3.827

XII. Department of Commerce NIST ATP Funding Trends, by County

Rank	County Name	1993	1994	1995	1996	1997	1998	1999	2000	County Total
1	Santa Clara	3.943	4.303	14.679	14.220	21.878	37.317	36.849	34.851	168.040
2	San Diego	2.322	2.322	7.776	7.280	9.639	10.381	8.689	6.336	54.745
3	San Mateo			0.493	2.896	2.896	2.903	7.091	6.144	27.112
4	Los Angeles			0.953	1.655	2.459	1.506	1.174	6.367	25.240
5	San Francisco					2.604	2.604	2.604	3.418	18.065
6	Alameda					1.269	1.269	1.269	1.667	8.808
7	San Bernardino					1.238	1.238	1.238	1.238	7.427
8	Contra Costa					0.500	0.500	1.160	1.160	5.409
9	Orange					0.429	0.429	0.429	1.423	4.697
10	Sacramento					0.633	0.633	0.633	0.633	3.216
11	Ventura					0.500	0.500	0.500	0.500	2.500
Fiscal Year Total:		7.219	9.274	34.984	33.075	43.426	71.194	66.063	60.027	325.260